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No. 755.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., January 31, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1912.]

**NOTE.**—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

#### REPORTS.

##### NEW.

Report of the Forester for 1911. By Henry S. Graves. Pp. 78. (From Annual Reports of the Department of Agriculture.)

##### REPRINT.

Report of the Chief of the Bureau of Biological Survey for 1911. By Henry W. Henshaw. Pp. 20. (From Annual Reports of the Department of Agriculture.)

#### BULLETINS.

##### NEW.

The Structure of Certain Dipterous Larvæ, with Particular Reference to Those in Human Foods. By Nathan Banks, Assistant. Pp. 44, pls. 8, fig. 1. (Bulletin 22, Technical Series, Bureau of Entomology.)

Some New California and Georgia Thysanoptera. By Paul R. Jones, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 24, pls. 7. (Bulletin 23, Part 1, Technical Series, Bureau of Entomology.)

A Report upon the Back Swamp and Jacob Swamp Drainage District, Robeson County, North Carolina. By Samuel H. McCrory, Drainage Engineer, Assisted by Carl W. Mengel, Assistant Drainage Engineer. Prepared under the Direction of C. G. Elliot, Chief of Drainage Investigations. Pp. 47, figs. 7. (Bulletin 246, Office of Experiment Stations.)

Experiment Station Record, Vol. XXV, No. 9, Abstract Number. E. W. Allen, Ph. D., Editor. Pp. 801-900.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

A Plant-disease Survey in the Vicinity of San Antonio, Texas. By Frederick D. Heald and Frederick A. Wolf, Experts. Pp. 129, pls. 19, figs. 2. (Bulletin 226, Bureau of Plant Industry.)

Mileage and Cost of Public Roads in the United States in 1909. By J. E. Pennybacker, jr., Chief of Road Management (to January 1, 1911), and Maurice O. Eldridge, Assistant in Charge of Road Management (Since January 1, 1911). Pp. 120. (Bulletin 41, Office of Public Roads.)

Seedtime and Harvest: Cereals, Flax, Cotton, and Tobacco. Dates of Planting and Harvesting East of Meridians 102-104 in the United States. By James R. Covert, Division of Production and Distribution. Pp. 152, figs. 27. (Bulletin 85, Bureau of Statistics.)

Absorption and Excretion of Salts by Roots, as Influenced by Concentration and Composition of Culture Solutions. I.—Concentration Relations of Dilute Solutions of Calcium and Magnesium Nitrates to Pea Roots. By

Rodney H. True, Physiologist in Charge, and Harley Harris Bartlett, Chemical Biologist, Drug-plant, Poisonous-plant, Physiological, and Fermentation Investigations. Pp. 36, pl. 1, figs. 21. (Bulletin 231, Bureau of Plant Industry.)

#### REPRINTS.

Fattening Poultry. (Bulletin 140, Bureau of Animal Industry.)  
 Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. (Bulletin 107, revised, Bureau of Chemistry.)  
 The Harmful Effects of Acetanilid, Antipyrin, and Phenacetin. (Bulletin 126, Bureau of Chemistry.)  
 Studies on Fruit Respiration. (Bulletin 142, Bureau of Chemistry.)  
 Some Insects Injurious to the Violet, Rose, and Other Ornamental Plants. (Bulletin 27, New Series, Division of Entomology.)  
 The Rearing of Queen Bees. (Bulletin 55, Bureau of Entomology.)  
 Notes on the Economic Importance of Sowbugs. (Bulletin 64, Part 2, Bureau of Entomology.)  
 The Greenhouse Thrips. (Bulletin 64, Part 6, Bureau of Entomology.)  
 The Status of Apiculture in the United States. (Bulletin 75, Part 6, Bureau of Entomology.)  
 Chemistry of Fumigation with Hydrocyanic-acid Gas. (Bulletin 90, Part 3, Bureau of Entomology.)  
 A List of Insects Affecting Stored Cereals. The Mexican Grain Beetle. The Siamese Grain Beetle. (Bulletin 96, Part 1, Bureau of Entomology.)  
 The California Peach Borer. (Bulletin 97, Part 4, Bureau of Entomology.)  
 Mechanical Tests of Pumping Plants in California. (Bulletin 181, Office of Experiment Stations.)  
 Experiment Station Record, Vol. XIV, No. 9, May, 1903.  
*Same*, Vol. XVIII, No. 2, October, 1906.  
 The Woodsman's Handbook, revised and enlarged. (Bulletin 36, Forest Service.)  
 Wood Preservation in the United States. (Bulletin 78, Forest Service.)  
 Windbreaks: Their Influence and Value. (Bulletin 86, Forest Service.)  
 Relation of Light Chipping to the Commercial Yield of Naval Stores. (Bulletin 90, Forest Service.)  
 Wild Medicinal Plants of the United States. (Bulletin 89, Bureau of Plant Industry.)  
 American Medicinal Barks. (Bulletin 139, Bureau of Plant Industry.)  
 Examination and Classification of Rocks for Road Building. (Bulletin 37, Office of Public Roads.)  
 Reclamation of Alkali Soils. (Bulletin 34, Bureau of Soils.)

#### CIRCULARS.

##### NEW.

Amendment 1 to Rule 1, Revision 8.—To Prevent the Spread of Splenetic Fever in Cattle. Amendment regarding the Return of Cattle of the Nonquarantined Area That are Exhibited at the National Feeders and Breeders' Show at Fort Worth, Tex., March 18 to 23, 1912. P. 1. (Amendment 1 to B. A. I. Order 183.)  
 Insect Damage to Standing Timber in the National Parks. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 10. (Circular 143, Bureau of Entomology.)  
 The Dying Hickory Trees: Cause and Remedy. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 5, figs. 4. (Circular 144, Bureau of Entomology.)  
 Report of the Committee on Instruction in Agriculture, 1911. Pp. 19. (Circular 115, Office of Experiment Stations.)  
 Strength Values for Structural Timbers. By McGarvey Cline, Director, Forest Products Laboratory. Pp. 8. (Circular 189, Forest Service.)  
 Progress Report on Wood-paving Experiments in Minneapolis. By Francis M. Bond, in Charge, Section of Wood Preservation, Forest Products Laboratory. Pp. 19, figs. 5. (Circular 194, Forest Service.)

Forest Planting in the Northeastern and Lake States. Pp. 15, fig. 1. (Circular 195, Forest Service.)

The Influence of Age and Condition of the Tree upon Seed Production in Western Yellow Pine. By G. A. Pearson, in Charge, Fort Valley Experiment Station. Pp. 11. (Circular 196, Forest Service.)

An Improved Method of Artificial Pollination in Corn. By G. N. Collins and J. H. Kempton. Pp. 7, figs. 2. (Circular 89, Bureau of Plant Industry.)

Publications of the Office of the Secretary, Office of the Solicitor, and the Division of Publications. Pp. 4. (Circular 9, Division of Publications.)

Publications of the Department of Agriculture Classified for the Use of Teachers. Pp. 36. (Circular 19, Division of Publications.)

Monthly List of Publications, December, 1911. Pp. 4. (Document 751, Division of Publications.)

The Houston Black Clay. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 14. (Circular 50, Bureau of Soils.)

The Susquehanna Fine Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 11. (Circular 51, Bureau of Soils.)

The Food and Drugs Act. Pp. 4. (Circular 57, Office of the Solicitor.)

The Twenty-eight Hour Law. Pp. 4. (Circular 59, Office of the Solicitor.)

Foreign Crops, November-December, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 16. (Circular 26, Bureau of Statistics.)

Tobacco Crop, 1911, by Types and Districts. Prepared by J. P. Killebrew, Special Agent on Tobacco, Bureau of Statistics. Pp. 8. (Circular 27, Bureau of Statistics.)

Supplement to Crop Reporter, Vol. 13, No. 12, December, 1911. Pp. 97-104. (Bureau of Statistics.)

Crop Reporter, Vol. 14, No. 1, January, 1912. Pp. 1-8. (Bureau of Statistics.)  
The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

The Score-card System of Dairy Inspection. (Circular 139, Bureau of Animal Industry.)

Directions for Constructing a Vat and Dipping Cattle to Destroy Ticks. (Circular 183, Bureau of Animal Industry.)

List of Accredited Veterinary Colleges. (Circular 150-A, Bureau of Animal Industry.)

Destruction of Wolves and Coyotes. (Circular 63, Bureau of Biological Survey.)

National Bird and Mammal Reservations in Alaska in Charge of the U. S. Department of Agriculture. (Circular 71, Bureau of Biological Survey.)

The California Ground Squirrel. (Circular 76, Bureau of Biological Survey.)

Three Important Wild Duck Foods. (Circular 81, Bureau of Biological Survey.)

Coloring Matters for Foodstuffs and Methods for Their Detection. (Circular 25, Bureau of Chemistry.)

Two New Pieces of Chemical Apparatus. (Circular 80, Bureau of Chemistry.)

The Grasshopper Problem and Alfalfa Culture. (Circular 84, Bureau of Entomology.)

The Bagworm. (Circular 97, Bureau of Entomology.)

The San Jose Scale and Its Control. (Circular 124, Bureau of Entomology.)

The Indian-meal Moth and "Weevil-cut" Peanuts. (Circular 142, Bureau of Entomology.)

Hardy Catalpa. (Circular 82, Forest Service.)

The Present Status of the Tobacco Industry. (Circular 48, Bureau of Plant Industry.)

Agricultural Observations on the Truckee-Carson Irrigation Project. (Circular 78, Bureau of Plant Industry.)

The Picking and Handling of Peanuts. (Circular 88, Bureau of Plant Industry.)

Sand-clay and Earth Roads in the Middle West. (Circular 91, Office of Public Roads.)

## FARMERS' BULLETINS.

## NEW.

Experiment Station Work, LXVII. Compiled from the Publications of the agricultural experiment stations. Pp. 24, fig. 1. (Farmers' Bulletin 479.)

Contents: Screening cabbage seed beds—Spraying apple orchards—New type of spray nozzle—Preparation of corn for hogs—Experiments in beef production—Preparation of choice hams—Factors affecting fat in cream.

Practical Methods of Disinfecting Stables. By George W. Pope, Veterinary Inspector, Quarantine Division, Bureau of Animal Industry. Pp. 16, figs. 8. (Farmers' Bulletin 480.)

This bulletin contains statements in regard to the necessity for and nature of disinfection for stables, and gives directions for the preparation and application of disinfectants. It also describes suitable spraying apparatus.

## SEPARATES.

## REPRINT.

The Economic Value of Predaceous Birds and Mammals. (Separate 474, Year-book 1908.)

## PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 39, No. 10, October, 1911. Prepared under direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1467-1631, figs. 12, maps 2, charts 7. (W. B. 470.) Price, 35 cents; \$4 a year.

Same, Vol. 39, No. 11, November, 1911. Pp. 1633-1790, maps 2, charts 8. (W. B. 474.) Price, 35 cents; \$4 a year.

Snow and Ice Bulletin for January 2, 9, 16, 23, and 30. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

National Monthly Weather Bulletin for December, 1911, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 32. Price, 25 cents a year.

## EARLIER PUBLICATIONS AVAILABLE FOR DISTRIBUTION.

Report on the Condition of Treated Timbers Laid in Texas, February, 1902. (Bulletin 51, Bureau of Forestry.)

Improvement of the Wheat Crop in California. (Bulletin 178, Bureau of Plant Industry.)

Agriculture in the Central Part of the Semiarid Portion of the Great Plains. (Bulletin 215, Bureau of Plant Industry.)

Conservation of the Soil. (Circular 38, Office of the Secretary.)

How to Kill and Bleed Market Poultry. (Circular 61, Bureau of Chemistry.)

Boxelder. (Circular 86, Forest Service.)

Green Ash. (Circular 92, Forest Service.)

Hydrocyanic-acid Gas against Household Insects. (Circular 46, Bureau of Entomology.)

Suggestions to Settlers on the Sandy Soils of the Columbia River Valley. (Circular 60, Bureau of Plant Industry.)

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs, which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this Department since 1908 can be supplied to applicants, on an order from the Division of Publications, by the firms which make them for the Department, the cost being about 5 cents per square inch, payable to the maker on receipt of the cuts.

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

Approved:

JAMES WILSON,

*Secretary of Agriculture.*

JOS. A. ARNOLD,

*Editor and Chief.*

This circular will be sent regularly to all who apply for it.

No. 758.

## United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., February 29, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1912.]

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The Superintendent of Documents is not an official of the Department of Agriculture, and all money should be sent to him.

The Department of Agriculture does not distribute nor control the distribution of the publications of the State agricultural experiment stations.

Remittances should be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk.

Postage stamps, foreign money, uncertified checks, defaced or smooth coins, will positively not be accepted.

To facilitate the payment of the cost of documents the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1. Address order to Superintendent of Documents, Government Printing Office.

#### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Clarendon County, South Carolina. By W. E. McLendon. Pp. 37, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

Soil Survey of Granville County, North Carolina. By R. B. Hardison and David D. Long. Hugh H. Bennett, Inspector in Charge. Pp. 44, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

Soil Survey of Waukesha County, Wisconsin. By W. J. Geib, Perry O. Wood, and Grove B. Jones, of the United States Department of Agriculture; and A. H. Meyer, of the Wisconsin Geological and Natural History Survey. J. E. Lapham, Inspector in Charge. Pp. 48, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

#### REPORT.

#### NEW.

Twenty-seventh Annual Report of the Bureau of Animal Industry for the year 1910. Pp. 573, pls. 42, figs. 75. Price 80 cents.

#### BULLETINS.

#### NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 36 (Addenda and Corrigenda to Parts 1 to 35). By Ch. Wardell Stiles, Consulting Zoologist, Bureau of Animal Industry, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. 2705-2766. (Bulletin 39, Part 36, Bureau of Animal Industry.) Price 5 cents.

The Maintenance Rations of Farm Animals. By Henry Prentiss Armsby, Expert in Animal Nutrition, Bureau of Animal Industry. Pp. 110, fig. 1. (Bulletin 143, Bureau of Animal Industry.) Price 15 cents.

Coal-tar Colors Used in Food Products. By Bernhard C. Hesse, Expert, Bureau of Chemistry. Pp. 228, fig. 1. (Bulletin 147, Bureau of Chemistry.) Price 25 cents.

Notes on the Peach Bud Mite, an Enemy of Peach Nursery Stock. By A. L. Quaintance, in Charge of Deciduous-fruit Insect Investigations. Pp. 103-114, pls. 5. (Bulletin 97, Part 6, Bureau of Entomology.) Price 10 cents.

Belzoni Drainage District in Washington County, Mississippi. By H. A. Kipp, Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 55, figs. 6. (Bulletin 244, Office of Experiment Stations.) Price 15 cents.

Course in the Use and Preparation of Vegetable Foods for Movable and Correspondence Schools of Agriculture. By Anna Barrows, Director, School of Domestic Science, Chautauqua, N. Y., and Instructor, School of Household Arts, Columbia University. Pp. 98. (Bulletin 245, Office of Experiment Stations.) Price 10 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 103. (Bulletin 247, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XXVI, No. 1, January, 1912. E. W. Allen, Ph. D., Editor. Pp. 1-100.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 per volume. Current numbers are not sold separately.

Crossbreeding Corn. By C. P. Hartley, Ernest B. Brown, C. H. Kyle, and L. L. Zook, Office of Corn Investigations. Pp. 72, fig. 1. (Bulletin 218, Bureau of Plant Industry.) Price 10 cents.

The History and Cause of the Coconut Bud-rot. By John R. Johnston, Assistant Pathologist, Laboratory of Plant Pathology. Pp. 175, pls. 14, figs. 10. (Bulletin 228, Bureau of Plant Industry.) Price 30 cents.

Agricultural Varieties of the Cowpea and Immediately Related Species. By C. V. Piper, Agrostologist in Charge of Forage-crop Investigations. Pp. 160, pls. 12. (Bulletin 229, Bureau of Plant Industry.) Price 25 cents.

The Wilting Coefficient for Different Plants and Its Indirect Determination. By Lyman J. Briggs, Physicist in Charge of Physical Investigations, and H. L. Shantz, Physiologist, Alkali and Drought-resistant Plant Breeding Investigations. Pp. 83, pls. 2, figs. 9. (Bulletin 230, Bureau of Plant Industry.) Price 15 cents.

A Preliminary Study of the Forced Curing of Lemons as Practiced in California. By Arthur F. Sievers, Chemical Biologist, and Rodney H. True, Physiologist in Charge, Drug-plant, Poisonous-plant, Physiological, and Fermentation Investigations. Pp. 38, figs. 4. (Bulletin 232, Bureau of Plant Industry.) Price 10 cents.

Seeds and Plants Imported during the period from January 1 to March 31, 1911. Inventory No. 26; Nos. 29328 to 30461. Pp. 98. (Bulletin 233, Bureau of Plant Industry.) Price 10 cents.

The Cultivation and Manufacture of Tea in the United States. By George F. Mitchell, Scientific Assistant, Drug-plant, Poisonous-plant, Physiological, and Fermentation Investigations. Pp. 40, pls. 2, figs. 11. (Bulletin 234, Bureau of Plant Industry.) Price 10 cents.

Wild Volatile-oil Plants and Their Economic Importance: I.—Black Sage; II.—Wild Sage; III.—Swamp Bay. By Frank Rabak, Chemical Biologist, Drug-plant, Poisonous-plant, Physiological, and Fermentation Investigations. Pp. 37, figs. 6. (Bulletin 235, Bureau of Plant Industry.) Price 5 cents.

Grain-sorghum Production in the San Antonio Region of Texas. By Carleton R. Ball, Agronomist in Charge of Grain-sorghum and Broom-corn Investigations, Office of Grain Investigations, and Stephen H. Hastings, Superintendent of the San Antonio Experiment Farm, Office of Western Agricultural Extension. Pp. 30, figs. 4. (Bulletin 237, Bureau of Plant Industry.) Price 5 cents.

New Hampshire Highways. Report of an Inspection of Highways in the State of New Hampshire, August, 1911. By Charles H. Hoyt, Superintendent of Construction, United States Office of Public Roads. Pp. 35, pls. 41. (Bulletin 42, Office of Public Roads.) Price 25 cents.

## CIRCULARS.

Price 5 cents each.

NEW.

Combined Arsenious Oxid in Paris Green. P. 1. (Insecticide Decision 5, Office of the Secretary.)

Inert and Active Ingredients of Bordeaux Mixture. Pp. 2. (Insecticide Decision 6, Office of the Secretary.)

State and Municipal Meat Inspection and Municipal Slaughterhouses. Pp. 14, figs. 4. By A. D. Melvin, Chief of the Bureau of Animal Industry. (Circular 185, Bureau of Animal Industry.)

Progress and Prospects of Tick Eradication. By Cooper Curtice, Veterinary Inspector, Inspection Division, Bureau of Animal Industry. Pp. 11, fig. 1. (Circular 187, Bureau of Animal Industry.)

Increasing Creamery Profits by Handling Special Products and Utilizing By-products. By S. C. Thompson, in Charge of Dairy Manufacturing Investigations, Dairy Division. Pp. 10. (Circular 188, Bureau of Animal Industry.)

The Temperature of Pasteurization for Butter Making. By L. A. Rogers, Bacteriologist; W. N. Berg, Chemist; and Brooke J. Davis, Assistant, Dairy Division. Pp. 20, figs. 3. (Circular 189, Bureau of Animal Industry.)

The Vaccination of Cattle against Tuberculosis. By E. C. Schroeder and W. E. Cotton, of the Experiment Station, and John R. Mohler and Henry J. Washburn, of the Pathological Division. Pp. 15. (Circular 190, Bureau of Animal Industry.)

Various Methods for the Diagnosis of Glanders. By John R. Mohler, Chief of the Pathological Division, and Adolph Eichhorn, Bacteriologist, Pathological Division. Pp. 16, pls. 4. (Circular 191, Bureau of Animal Industry.)

The Regional Lymph Glands of Food-producing Animals. By John S. Buckley, Assistant in Pathology, Pathological Division, and Thomas Castor, Veterinary Inspector. Pp. 30, pls. 3, figs. 12. (Circular 192, Bureau of Animal Industry.)

Our Present Knowledge of the Distribution and Importance of Some Parasitic Diseases of Sheep and Cattle in the United States. By Maurice C. Hall, Assistant Zoologist, Zoological Division. Pp. 45, pls. 2, figs. 18. (Circular 193, Bureau of Animal Industry.)

Regulations Governing the Certification of Recognized Breeds and Purebred Animals. Pp. 6. (Order 186, Bureau of Animal Industry.)

A Modification of the Herzfeld-Bohme Method for the Detection of Mineral Oil in Other Oils. By F. P. Veitch and Marion G. Donk, Leather and Paper Laboratory. Pp. 15, fig. 1. (Circular 85, Bureau of Chemistry.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1911. Pp. 19. (Circular 90, Bureau of Chemistry.)

The Arsenic Content of Shellac and the Contamination of Foods from this Source. By Bernard H. Smith, Chief, Boston Food and Drug Inspection Laboratory. Pp. 4. (Circular 91, Bureau of Chemistry.)

A Chemical Investigation of American Spearmint Oil. By E. K. Nelson, Chief, Essential Oil Laboratory, Division of Drugs. Pp. 4. (Circular 92, Bureau of Chemistry.)

Marking Porcelain and Silica Crucibles, etc. By P. A. Yoder, Assistant Chemist, Plant Physiological Laboratory. Pp. 3. (Circular 93, Bureau of Chemistry.)

The Movement of the Mexican Cotton Boll Weevil in 1911. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations. Pp. 4, fig. 1. (Circular 146, Bureau of Entomology.)

List of Station Publications Received by the Office of Experiment Stations during January, 1912. Pp. 6. (Document 1437, Office of Experiment Stations.)

Publications of the Forest Service. Pp. 6. (Circular 11, Division of Publications.)

Publications of the Bureau of Statistics. Pp. 5. (Circular 12, Division of Publications.)

Suggestions to Potato Growers on Irrigated Lands. By L. C. Corbett, Horticulturist. Pp. 6. (Circular 90, Bureau of Plant Industry.)

Publications of the Bureau of Plant Industry. Pp. 15. (Circular 13, Division of Publications.)

Publications of the Bureau of Animal Industry. Pp. 8. (Circular 15, Division of Publications.)

Publications of the Office of Experiment Stations. Pp. 11. (Circular 17, Division of Publications.)

Publications of the Library. Pp. 3. (Circular 18, Division of Publications.)

Monthly List of Publications, January, 1912. Pp. 4. (Document 755, Division of Publications.)

Coke-oven Tars of the United States. By Prevost Hubbard, Chemist, Office of Public Roads. Pp. 11. (Circular 97, Office of Public Roads.)

The Nematode Gallworm on Potatoes and Other Crop Plants in Nevada. By C. S. Scofield, Agriculturist, Western Agricultural Extension. Pp. 15, figs. 21. (Circular 91, Bureau of Plant Industry.)

Soils of the Shenandoah River Terrace: A Revision of Certain Soils in the Albemarle Area, Virginia. By Hugh H. Bennett, Inspector in Charge of Southern Division. Pp. 16, figs. 4. (Circular 53, Bureau of Soils.)

The Crowley Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 8. (Circular 54, Bureau of Soils.)

The Chester Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 10. (Circular 55, Soil Survey.)

An Investigation of the Otero Basin, N. Mex., for Potash Salts. By E. E. Free. Pp. 7. (Circular 61, Bureau of Soils.)

Foreign Crops, January, 1912. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 16. (Circular 28, Bureau of Statistics.)

Crop Reporter, Vol. 14, No. 2, February, 1912. Pp. 9-16. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS. Price 5 cents each.

NEW.

Sorghum Sirup Manufacture. By A. Hugh Bryan, Chief, Sugar Laboratory. Pp. 40, figs. 23. (Farmers' Bulletin 477.)

This bulletin gives the history and varieties of sorghum grown in the United States, its culture, harvesting, etc. It contains directions for the manufacture of sorghum sirup, describes the necessary equipment, contains comments by representative sorghum makers, the analyses of different varieties, the production by the different States, etc.

The Pear and How to Grow It. By G. B. Brackett, Pomologist, Bureau of Plant Industry. Pp. 31, figs. 30. (Farmers' Bulletin 482.)

This bulletin tells of the value of the dwarf and the standard pear trees, methods of propagation, location of the orchard, selection of trees, cultivation, cover crops, pruning, protection from rodents, etc. It gives directions for the control of diseases and injurious insects, and gathering and marketing the crop, with illustrations and descriptions of several varieties of pears.

Cheese and Its Economical Uses in the Diet. By C. F. Langworthy, Chief of Nutrition Investigations, Office of Experiment Stations, and Caroline L. Hunt, Expert in Nutrition, Office of Experiment Stations. Pp. 40. (Farmers' Bulletin 487.)

This bulletin describes the essentials of cheese making, the kinds of cheese used in America, its care in the home, its value and uses as food, the flavor of cheese, its composition compared with other foods, its nutritive value, cost, and digestibility. It contains directions for the manufacture of home-made cheese and for the preparation of a large number of cheese dishes.

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau, or the Superintendent of Documents, Government Printing Office, at the prices noted.]

National Monthly Weather Bulletin for January, 1912, reporting temperature and rainfall with a summary of weather conditions throughout the United States. No. 1. Price 25 cents a year.

Snow and Ice Bulletin for February 6, 13, 20, and 27. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents a year.

Approved:

JAMES WILSON, Secretary of Agriculture.

Jos. A. ARNOLD,  
Editor and Chief.



This circular will be sent regularly to all who apply for it.

No. 761.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., March 30, 1912.

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#### ADVANCE SHEETS, BUREAU OF SOILS.

(Price 15 cents each.)

Reconnaissance Soil Survey of Western Kansas. By George N. Coffey, Thomas D. Rice, and party. George N. Coffey, Inspector in Charge. Pp. 104, pls. 4, figs. 2. (From F. O. Soils, 1910.)

Soil Survey of Lauderdale County, Miss. By Hugh H. Bennett and Howard C. Smith, of the United States Department of Agriculture, and W. M. Spann, E. M. Jones, and A. L. Goodman, of the Mississippi Geological Survey. Hugh H. Bennett, Inspector in charge. Pp. 56, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Pemiscot County, Mo. By A. T. Sweet, C. J. Mann, and H. Krusekopf, of the United States Department of Agriculture, and E. S. Vanatta and H. G. Lewis, of the University of Missouri. Hugh H. Bennett, Inspector in Charge. Pp. 32, figs. 3, map. (From F. O. Soils, 1910.)

Soil Survey of Mecklenburg County, N. C. By W. Edward Hearn, of the United States Department of Agriculture, and L. L. Brinkley, of the North Carolina Department of Agriculture. Pp. 42, fig. 1, map. (From F. O. Soils, 1910.)

#### REPORTS.

#### NEW.

The Agricultural Possibilities of the Canal Zone. Part I. Reconnaissance Soil Survey. By Hugh H. Bennett, Scientist in the Soil Survey. Part II. The Outlook for Agriculture. By Wm. A. Taylor, Pomologist and Assistant Chief of Bureau of Plant Industry. Pp. 49, pls. 12, fig. 1, map. (Report No. 95, Office of the Secretary.) Price 30 cents.

Field operations of the Bureau of Soils, 1909. (Eleventh Report.) By Milton Whitney, Chief. With accompanying papers by assistants in charge of field parties. Pp. 1756, pls. 28, figs. 58, maps 37 (in pocket). For distribution also by Senators, Representatives, and Delegates in Congress. Price \$4.80; without maps, \$1.55.

## BULLETINS.

## NEW.

Chronology and Index of the More Important Events in American Game Protection, 1776-1911. By T. S. Palmer, Assistant Chief, Biological Survey. Pp. 62. (Bulletin 41, Biological Survey.) Price 10 cents.

Enological Studies. The Chemical Composition of American Grapes Grown in Ohio, New York, and Virginia. By William B. Alwood, Enological Chemist. Pp. 35. (Bulletin 145, revised, Bureau of Chemistry.) Price 5 cents.

The Growth of Wheat Seedlings as Affected by Acid or Alkaline Conditions. By J. F. Breazeale and J. A. Le Clerc, Laboratory of Plant Physiological Chemistry. Pp. 18, pls. 8. (Bulletin 149, Bureau of Chemistry.) Price 10 cents.

Historical Notes on the Causes of Bee Diseases. By E. F. Phillips, in Charge of Bee Culture, and G. F. White, Expert in Bacteriology. Pp. 96. (Bulletin 98, Bureau of Entomology.) Price 10 cents.

Experiment Station Record, Vol. XXVI, No. 2, February, 1912. E. W. Allen, Ph. D., Editor. Pp. 101-200. Price 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Insectos Perjudiciales a Frutas del Genero Citrus y Medios de Combatirlos. Por W. V. Tower, Entomologo, Estación Experimental Agricola de Puerto Rico. Bajo la dirección de la Oficina de Estaciones Experimentales, Departamento de Agricultura de los Unidos. Pp. 36, grabados 5. (Boletin No. 10, Estacion Experimental Agricola de Puerto Rico.) Price 10 cents.

Monthly Bulletin of the Library, Vol. 2, No. 12, December, 1911. Pp. 340-366. (Library.) Price 5 cents.

Same, Vol. 3, No. 1, January, 1912. Pp. 1-32. Price 5 cents.

The Measurement of the Oxidase Content of Plant Juices. By Herbert H. Bunzel, Chemical Biologist, Drug-plant, Poisonous-plant, Physiological, and Fermentation Investigations. Pp. 40, pls. 2, figs. 9. (Bulletin 238, Bureau of Plant Industry.) Price 10 cents.

Cooperative Grain Investigations at McPherson, Kansas, 1904-1909. By Victor L. Cory, Scientific Assistant in Grain Investigations. Pp. 22. (Bulletin 240, Bureau of Plant Industry.) Price 5 cents.

A Report on the Natural Phosphates of Tennessee, Kentucky, and Arkansas. By William H. Waggaman, Scientist in Chemical and Physical Investigations. Pp. 36, pls. 4, figs. 3. (Bulletin 81, Bureau of Soils.) Price 10 cents.

Modification of the Method of Mechanical Soil Analysis. By C. C. Fletcher and H. Bryan. Pp. 16, pls. 6. (Bulletin 84, Bureau of Soils.) Price 15 cents.

## CIRCULARS.

## NEW.

(Price, 5 cents each.)

The Protozoan Parasites of Domesticated Animals. By Howard Crawley, Junior Zoologist, Zoological Division. Pp. 465-498, pls. 6, figs. 13. (Circular 194, Bureau of Animal Industry. Reprinted from B. A. I. Annual Report, 1910.)

Some Results of Cattle-tick Eradication. Pp. 4. (Circular 196, Bureau of Animal Industry.)

The Bacterium of Contagious Abortion of Cattle Demonstrated to Occur in Milk. Pp. 3. (Circular 198, Bureau of Animal Industry.)

Rule 1, revision 9.—To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle. Pp. 12. (Order 187, Bureau of Animal Industry.)

Annual Report of the Governor of Alaska on the Alaska Game Law, 1911. By Walter E. Clark, Governor of Alaska. Pp. 12. (Circular 85, Bureau of Biological Survey.)

The Volatile Acidity of Gum Tragacanth Compared with That of Indian Gum. By W. O. Emery, Chief, Synthetic Products Laboratory, Division of Drugs. Pp. 5, fig. 1. (Circular 94, Bureau of Chemistry.)

The Larger Canna Leaf-roller. By F. H. Chittenden, in Charge of Truck-crop and Stored-product Insect Investigations. Pp. 10, figs. 8. (Circular 145, Bureau of Entomology.)

The Respiration Calorimeter: Application to the Study of Problems of Vegetable Physiology. By C. F. Langworthy and R. D. Milner, Office of Experiment Stations. Pp. 3. (Circular 116, Office of Experiment Stations.)

Forest Fire Protection under the Weeks Law in Cooperation with States. By J. Givin Peters, Chief of State Cooperation. Pp. 15, fig. 1. (Circular 205, Forest Service.)

The Control of Cotton Wilt and Root-knot. By W. A. Orton, Pathologist, and W. W. Gilbert, Assistant Pathologist, Cotton and Truck Disease and Sugar-plant Investigations. Pp. 19, figs. 9. (Circular 92, Bureau of Plant Industry.)

The Danger of Using Foreign Potatoes for Seed. By William Stuart, Expert, and W. A. Orton, Pathologist. Pp. 5. (Circular 93, Bureau of Plant Industry.)

The Corn Crop in the Southern States. By Bradford Knapp, Special Agent in Charge, Farmers' Cooperative Demonstration Work. Pp. 12, figs. 2. (Document 730, Bureau of Plant Industry, Series No. "A"—80.)

Monthly List of Publications, February, 1912. Pp. 4. (Document No. 758, Division of Publications.)

Soils of the San Luis Valley, Colorado. By Macy H. Lapham, Scientist in Soil Survey. Pp. 26, fig. 1. (Circular 52, Bureau of Soils.)

The Penn Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 8. (Circular 56, Bureau of Soils.)

The Carrington Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 10. (Circular 57, Bureau of Soils.)

The Carrington Clay Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 11. (Circular 58, Bureau of Soils.)

The Marion Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 10. (Circular 59, Bureau of Soils.)

The Volusia Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 13. (Circular 60, Bureau of Soils.)

Foreign Crops Summary. Area and Production of Cereals, 1907-1911, and of Flax-seed, 1908-1910, by Countries. Compiled under the direction of Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 18. (Circular 29, Bureau of Statistics.)

Crop Reporter, Vol. 14, No. 3, March, 1912. Pp. 17-24. (Bureau of Statistics.)  
The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

##### NEW.

(Price, 5 cents each.)

Concrete Construction on the Live-stock Farm. Prepared under the direction of the Bureau of Animal Industry. Pp. 32, figs. 24. (Farmers' Bulletin No. 481.)

This bulletin discusses the advantages of concrete feeding floors and contains directions for the location and construction of such floors for cattle, sheep, hogs, and poultry and for manure pits and dipping vats.

The Thornless Prickly Pears. By David Griffiths, Agriculturist, Farm-management Investigations, Bureau of Plant Industry. Pp. 20, figs. 4. (Farmers' Bulletin No. 483.)

This bulletin gives the geographic distribution of the thornless or spineless prickly pears and discusses the moisture and temperature requirements of these plants, yields, composition, and value of the forage, soil adaptation, propagation, cultivation, harvesting, etc.

Some Common Mammals of Western Montana in Relation to Agriculture and Spotted Fever. By Clarence Birdseye, Assistant, Bureau of Biological Survey. Pp. 46, figs. 34. (Farmers' Bulletin No. 484.)

This bulletin tells of the damage to orchards and field crops in Montana by ground squirrels, chipmunks, meadow mice, and other rodents, and gives directions for their control and extermination.

Sweet Clover. By J. M. Westgate, Agronomist in Charge of Clover Investigations, Bureau of Plant Industry, and H. N. Vinall, Assistant Agrostologist, Bureau of Plant Industry. Pp. 38, figs. 16. (Farmers' Bulletin No. 485.)

This bulletin describes different species of sweet clover and contains information in regard to its uses and value as hay, pasture, and for green manuring, its seed production, enemies, and methods for its eradication.

Experiment Station Work, LXVIII. Compiled from the publications of the Agricultural Experiment Stations. Pp. 24, figs. 2. (Farmers' Bulletin No. 486.)

CONTENTS: The feeding of a Grand Champion steer—The utilization of dairy by-products as food.

#### SEPARATES.

#### NEW.

The Principles of Breeding and the Origin of Domesticated Breeds of Animals. By J. Cossar Ewart, Regius Professor of Natural History, University of Edinburgh, Scotland. Pp. 125-186, pls. 7, figs. 7. (From Annual Report of the Bureau of Animal Industry, 1910.) Price 15 cents.

The Ancestry of Domesticated Cattle. By E. W. Morse, Specialist in Animal Husbandry, Office of Experiment Stations, U. S. Department of Agriculture. Pp. 187-239, pls. 3, figs. 9. (From Annual Report of the Bureau of Animal Industry, 1910.) Price 10 cents.

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau, or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 39, No. 12, December, 1911. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1791-1949, maps 2, charts 8. (W. B. No. 475.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin for February, 1912, reporting rainfall and temperature, with a summary of weather conditions throughout the United States. No. 2. Price 25 cents a year.

Snow and Ice Bulletin for March 5, 12, 19, and 26. These bulletins are issued weekly during the winter season, based upon the data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs, which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

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This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., April 30, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1912.]

**NOTE.**—The publications in this list may be obtained upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the supply lasts. The editions of many of the publications are necessarily limited and when the supply is exhausted applicants may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., who has them for sale under the law of January 12, 1895, at the prices given.

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#### ADVANCE SHEETS, BUREAU OF SOILS.

(Price 15 cents each.)

Soil Survey of Chatham County, Georgia. By W. J. Latimer and Floyd S. Bucher.

Hugh H. Bennett, Inspector in Charge. Pp. 34, fig. 1, map.

Soil Survey of Cape Girardeau County, Missouri. By H. Krusekopf, of the United States Department of Agriculture, and H. G. Lewis, of the University of Missouri.

Hugh H. Bennett, Inspector in Charge. Pp. 48, figs. 3, map.

Soil Survey of Jackson County, Missouri. By A. T. Sweet, of the United States Department of Agriculture, and H. Krusekopf and J. E. Dunn, of the University of Missouri. J. E. Lapham, Inspector in Charge. Pp. 37, figs. 3, map.

Soil Survey of the Clarksburg Area, West Virginia. By Charles N. Mooney and W. J. Latimer. Hugh H. Bennett, Inspector in Charge. Pp. 32, fig. 1, map.

Soil Survey of Iowa County, Wisconsin. By Clarence Lounsbury, of the United States Department of Agriculture, and T. J. Dunnewald and Emil Truog, of the Wisconsin Geological and Natural History Survey. Pp. 29, fig. 1, map.

#### REPORTS.

##### NEW.

Annual Report of the Hawaii Agricultural Experiment Station for 1911. Under the supervision of Office of Experiment Stations, United States Department of Agriculture. Pp. 63, pls. 7, fig. 6. Price 15 cents.

#### BULLETINS.

##### NEW.

Investigations Relative to Arsenical Dips as Remedies for Cattle Ticks. By B. H. Ransom, Chief of the Zoological Division, and H. W. Graybill, Assistant Zoologist. Pp. 65, pls. 6, fig. 1. (Bulletin 144, Bureau of Animal Industry.) Price 15 cents.

The Toxicity of Caffein: An Experimental Study on Different Species of Animals. By William Salant, Chief, Pharmacological Laboratory, Division of Drugs, and J. B. Rieger, Assistant Chemist. Pp. 98. (Bulletin 148, Bureau of Chemistry.) Price 15 cents.

Technical Drug Studies by the Division of Drugs: Examination of Hydrogen Dioxid Solutions. By L. F. Kebler, L. E. Warren, and E. A. Ruddiman. The Purity of Glycerin. By L. F. Kebler and H. C. Fuller. Notes on Two Important Alkaloidal Reactions. By H. C. Fuller. The Separation and Identification of Small Quantities of Cocain. By H. C. Fuller. The Determination of Molybdic Trioxid. By B. Herstein. A Method for Testing Ammonium Salts. By B. Herstein. Character of Samples of Beeswax Submitted with Bids. By L. F. Kebler and F. M. Boyles. Pp. 51. (Bulletin 150, Bureau of Chemistry.) Price 10 cents.

Chemical Analysis and Composition of Imported Honey from Cuba, Mexico, and Haiti. By A. Hugh Bryan, Chief, Sugar Laboratory, with the cooperation of Arthur Given and Sidney Sherwood, Assistant Chemists. Pp. 21. (Bulletin 154, Bureau of Chemistry.) Price 5 cents.

The So-called "Curlew Bug." By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 53-71, pls. 4, figs. 6. (Bulletin 95, Part 4, Bureau of Entomology.) Price 10 cents.

The False Wireworms of the Pacific Northwest. By James A. Hyslop, Agent and Expert, Cereal and Forage Insect Investigations. Pp. 73-87, figs. 6. (Bulletin 95, Part 5, Bureau of Entomology.) Price 5 cents.

The Insect Enemies of the Cotton Boll Weevil. By W. Dwight Pierce, Agent and Expert, Assisted by R. A. Cushman and C. E. Hood, Agents and Experts, under the direction of W. D. Hunter, Agent and Expert, in Charge of Southern Field Crop Insect Investigations. Pp. 99, pls. 3, figs. 26. (Bulletin 100, Bureau of Entomology.) Price 15 cents.

The Imported Cabbage Webworm. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations, and H. O. Marsh, Agent. Pp. 23-45, figs. 4. (Bulletin 109, Part 3, Bureau of Entomology.) Price 5 cents.

A Little-known Cutworm. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 47-51, fig. 1. (Bulletin 109, Part 4, Bureau of Entomology.) Price 5 cents.

Arsenate of Zinc and Lead Chromate as Remedies against the Colorado Potato Beetle. By Fred A. Johnston, Entomological Assistant. (In cooperation with the Virginia Truck Experiment Station.) Pp. 53-56. (Bulletin 109, Part 5, Bureau of Entomology.) Price 5 cents.

Technical Results from the Gipsy Moth Parasite Laboratory. IV. The Chalcidoid Genus *Perilampus* and Its Relations to the Problem of Parasite Introduction. By Harry S. Smith, Expert. Pp. 33-69, figs. 8. (Bulletin 19, Part 4, Technical Series, Bureau of Entomology.) Price 5 cents.

An Internal Parasite of Thysanoptera. By H. M. Russell, Entomological Assistant. Pp. 25-52, figs. 11. (Bulletin 23, Part 2, Technical Series, Bureau of Entomology.) Price 5 cents.

The Life History of the Alder Blight Aphis. By Theo. Pergande, Assistant. Pp. 28, figs. 12. (Bulletin 24, Technical Series, Bureau of Entomology.) Price 5 cents.

Evaporation from Irrigated Soils. By Samuel Fortier, Chief of Irrigation Investigations, and S. H. Beckett, Scientific Assistant. Pp. 77, pls. 2, figs. 27. (Bulletin 248, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XXV, Index Number. E. W. Allen, Ph. D., Editor. Pp. 901-1003, fig. 1. Price 15 cents.

*Same*, Vol. XXVI, No. 3. Pp. 201-300. Price 15 cents.

*Same*, Vol. XXVI, No. 4. Pp. 301-400. Price 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

The Function and Distribution of Manganese in Plants and Soils. By W. P. Kelley, Chemist. Under the supervision of Office of Experiment Stations, United States Department of Agriculture. Pp. 56. (Bulletin 26, Hawaii Agricultural Experiment Station.) Price 10 cents.

Wood-using Industries and National Forests of Arkansas. Part 1.—Uses and Supply of Wood in Arkansas. By J. T. Harris, Statistician, and Hu Maxwell, Expert. Part 2.—Timber Resources of the National Forests in Arkansas. By Francis Kiefer, Forest Supervisor. Pp. 40. (Bulletin 106, Forest Service.) Price 5 cents.

Farm Management: Organization of Research and Teaching. By W. M. Hays, Andrew Boss, A. D. Wilson, and Thomas P. Cooper. (In cooperation with the Minnesota Agricultural Experiment Station.) Pp. 96, pls. 5, figs. 57. (Bulletin 236, Bureau of Plant Industry.) Price 20 cents.

Cost and Methods of Clearing Land in Western Washington. By Harry Thompson, Expert, Office of Farm Management, Bureau of Plant Industry, in cooperation with the State Experiment Stations of Washington, Wisconsin, and Minnesota. Pp. 60, figs. 25. (Bulletin 239, Bureau of Plant Industry.) Price 10 cents.

The Use of Artificial Heat in Curing Cigar-leaf Tobacco. By W. W. Garner, Physiologist in Charge of Tobacco and Plant Nutrition Investigations. Pp. 25, figs. 4. (Bulletin 241, Bureau of Plant Industry.) Price 5 cents.

The Diseases of Ginseng and Their Control. By H. H. Whetzel, Plant Pathologist, Cornell University Agricultural Experiment Station, and Collaborator, Bureau of Plant Industry, and J. Rosenbaum, Special Agent, Cotton and Truck Disease and Sugar-plant Investigations. Pp. 44, pls. 12, figs. 5. (Bulletin 250, Bureau of Plant Industry.) Price 15 cents.

Highway Bridges and Culverts. By Charles H. Hoyt, formerly Superintendent of Construction, in Charge of Bridge Engineering, Office of Public Roads, and William H. Burr, Professor of Civil Engineering, Columbia University, Consulting Engineer, Office of Public Roads. Pp. 21, pls. 14, figs. 3. (Bulletin 43, Office of Public Roads.) Price 15 cents.

#### CIRCULARS.

(Price 5 cents each.)

#### NEW.

The Pasteurization of Milk. By S. Henry Ayers, Bacteriologist, Dairy Division. Pp. 44, figs. 32. (Circular 184, Bureau of Animal Industry.)

A Plan for a Small Dairy House. By Ernest Kelley, Dairyman, and Karl E. Parks, Dairy Engineer, Dairy Division. Pp. 5, figs. 4. (Circular 195, Bureau of Animal Industry.)

Directions for the Home Pasteurization of Milk. By L. A. Rogers, Bacteriologist, Dairy Division. Pp. 3, fig. 1. (Circular 197, Bureau of Animal Industry.)

Amendment 12 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. P. 1. (Amendment 12 to B. A. I. Order 146.)

Amending Regulation 2, Section 4, Paragraph 2, Recognizing the Canadian National Records for Percheron Horses. P. 1. (Amendment 1 to B. A. I. Order 186.)

Amendment 1 to Rule 1, Revision 9.—To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle. Pp. 2. (Amendment 1 to B. A. I. Order 187.)

A Method for the Detection of Small Quantities of Coumarin, Particularly in Factice Vanilla Extracts. By H. J. Wichmann, Assistant Chemist, Denver Food and Drug Inspection Laboratory. Pp. 2. (Circular 95, Bureau of Chemistry.)

A Measurement of the Translucency of Papers. By Frank Summet, Assistant Chemist, Leather and Paper Laboratory. Pp. 3. (Circular 96, Bureau of Chemistry.)

The Alfalfa Gall Midge (*Asphondylia miki*). By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 4, figs. 6. (Circular 147, Bureau of Entomology.)

Two Destructive Texas Ants. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations. Pp. 7. (Circular 148, Bureau of Entomology.)

The Cotton Stainer. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations. Pp. 5, figs. 2. (Circular 149, Bureau of Entomology.)

The Red Spider on Cotton. By E. A. McGregor, Scientific Assistant. Pp. 13, figs. 5. (Circular 150, Bureau of Entomology.)

Assistance to Private Owners in the Practice of Forestry. Pp. 8. (Circular 203, Forest Service.)

Boys' Demonstration Work: The Corn Clubs. Pp. 7, figs. 5. (B. P. I. Doc. 644, No. "A"—74, revised.)

Monthly List of Publications, March, 1912. Pp. 4. (Document 761, Division of Publications.)

Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 20. (Circular 21, revised, Office of the Secretary.)

The Adulteration and Misbranding of the Seeds of Red Clover, Kentucky Bluegrass, Orchard Grass, and Hairy Vetch. Pp. 7. (Circular 39, Office of the Secretary.)

Report of a Reconnaissance of the Lyon Nitrate Prospect near Queen, N. Mex. By E. E. Free. Pp. 6, pls. 5. (Circular 62, Bureau of Soils.)  
 The Volusia Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 16. (Circular 63, Bureau of Soils.)  
 The Hagerstown Clay. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 12. (Circular 64, Bureau of Soils.)  
 Foreign Crops, March, 1912. (Argentina.) Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 12. (Circular 30, Bureau of Statistics.)  
 Crop Reporter, Vol. 14, No. 4, April, 1912. Pp. 25-32. (Bureau of Statistics.)  
 The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

##### NEW.

Diseases of Cabbage and Related Crops and Their Control. By L. L. Harter, Pathologist, Cotton and Truck Disease and Sugar-plant Investigations. Pp. 32, figs. 7. (Farmers' Bulletin 488.)

This bulletin contains information as to the classification of the cabbage industry, how the various diseases are disseminated, farm practice and its relation to the control of diseases, and the important cabbage and cruciferous diseases.

Two Dangerous Imported Plant Diseases. By Perley Spaulding, Pathologist, Investigations in Forest Pathology, and Ethel C. Field, Scientific Assistant, Cotton and Truck Disease and Sugar-plant Investigations, Bureau of Plant Industry. Pp. 29, figs. 3. (Farmers' Bulletin 489.)

This bulletin describes the characteristics of the white pine blister rust, and the wart disease of the potato, their economic importance, the danger and means of their introduction into the United States, and methods of combating the diseases. It also contains remarks on the inadequacy of the present method of inspection for insects when applied to fungus plant diseases.

Bacteria in Milk. By L. A. Rogers, Bacteriologist, Dairy Division, Bureau of Animal Industry. Pp. 23, figs. 5. (Farmers' Bulletin 490.)

This bulletin explains the composition and characteristics of milk, its souring and sweet curdling, bitter, andropy milk, and other fermentations, with suggestions for the handling and care of milk.

The Profitable Management of the Small Apple Orchard on the General Farm. By M. C. Burritt, Assistant Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 22, figs. 8. (Farmers' Bulletin 491.)

This bulletin deals with the methods of rejuvenating old apple orchards, and contains information as to the cost and profits of such renovated orchards.

The More Important Insect and Fungus Enemies of the Fruit and Foliage of the Apple. By A. L. Quaintance, of the Bureau of Entomology, and W. M. Scott, of the Bureau of Plant Industry. Pp. 48, figs. 21. (Farmers' Bulletin 492.)

This bulletin gives the life history, injurious habits, and combative treatment of the codling moth, the plum curculio, the lesser apple worm, cankerworms, the bud moth, the apple-tree tent caterpillar, the San José scale, apple scab, bitter rot, apple blotch, cedar rust, apple leaf spot, and sooty fungus and flyspeck, with methods for their treatment.

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau, or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 40, No. 1, January, 1912. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 161, figs. 2, maps 2, charts 8. (W. B. No. 477.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin for March, 1912, reporting temperature and rainfall with a summary of weather conditions throughout the United States. No. 3. Price 25 cents a year.

National Weekly Weather Bulletin, Nos. 4, 5, 6, 7, for April, 1912. Price 25 cents a year.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

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# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[MAY, 1912.]

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#### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Red Bluff Area, California. By L. C. Holmes and E. C. Eckmann.

Macy H. Lapham, Inspector in Charge. Pp. 60, pls. 2, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

Soil Survey of the Uncompahgre Valley Area, Colorado. By J. W. Nelson and Lawrence A. Kolbe. Macy H. Lapham, Inspector in Charge. Pp. 51, pls. 6, fig. 1, maps 2. (From F. O. Soils, 1910.) Price 25 cents.

Soil Survey of Monroe County, New York. By G. A. Crabb and M. Earl Carr, of the U. S. Department of Agriculture, and B. D. Gilbert and G. J. Bouyoucos, of the New York State College of Agriculture. J. E. Lapham, Inspector in Charge Northern Division. Pp. 53, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

#### REPORTS.

##### NEW.

Yearbook of the U. S. Department of Agriculture, 1911. Pp. 732, pls. 67, figs. 20. Price, cloth, \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 150 pages; 31 miscellaneous articles including a wide range of subjects, each closely related to some line of work of the department, 354 pages; an appendix, 194 pages; and index, 34 pages. The appendix contains a short article on the publications of the Department and their distribution; a review of weather conditions for the year; and lists of agricultural colleges, experiment stations, and of officials in charge of agricultural interests in the several States. The closing 180 pages are occupied by statistical tables covering production, prices, exports, and imports, of the principal crops and farm animals.

Only 6 out of each 100 copies of the Yearbook are assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Other applicants are therefore respectfully referred to their Representatives or Delegates in Congress, to whom the other 94 per cent are allotted for distribution, or to the Superintendent of Documents, Government Printing Office, Washington, D. C., who has it for sale at \$1 per copy.

Special Report on Diseases of Cattle. By Drs. Atkinson, Dickson, Harbaugh, Hickman, Law, Lowe, Mohler, Murray, Pearson, Ransom, Salmon, Smith, and Trumbower. Pp. 576, pls. 52, figs. 30. (Revised edition, 1912, Bureau of Animal Industry.) Price \$1. Printed by authority of Congress. No copies for general distribution.

## BULLETINS.

NEW.

A Comparative Study of Methods of Examining Feces for Evidences of Parasitism. By Maurice C. Hall, Assistant Zoologist, Zoological Division. (Reissued with Addenda.) Pp. 42, fig. 1. (Bulletin 135, revised, Bureau of Animal Industry.) Price 10 cents.

Distribution and Migration of North American Shorebirds. By Wells W. Cooke, Assistant, Biological Survey. Pp. 100, pls. 4. (Bulletin 35, revised, Biological Survey.) Price 15 cents.

Report of an Expedition to Laysan Island in 1911, under the Joint Auspices of the United States Department of Agriculture and the University of Iowa. By Homer R. Dill, Assistant Professor of Zoology in the University of Iowa, and Wm. Alanson Bryan, Professor of Zoology in the College of Hawaii. Pp. 30, pls. 9, fig. 1. (Bulletin 42, Biological Survey.) Price 10 cents.

Large Scale Experiments on the Processing of Japanese Persimmons; with Notes on the Preparation of Dried Persimmons. By H. C. Gore, Assistant Chemist, Division of Foods. Pp. 20, figs. 3. (Bulletin 155, Bureau of Chemistry.) Price 5 cents.

Papers on Deciduous Fruit Insects and Insecticides. I. The Codling Moth in the Ozarks. By E. L. Jenne, Engaged in Deciduous Fruit Insect Investigations. II. The Cigar Case-bearer. By A. G. Hammar, Engaged in Deciduous Fruit Insect Investigations. III. Additional Observations on the Lesser Apple Worm. By S. W. Foster and P. R. Jones, Engaged in Deciduous Fruit Insect Investigations. IV. The Pear Thrips and Its Control. By Dudley Moulton, Engaged in Deciduous Fruit Insect Investigations. V. On the Nut-feeding Habits of the Codling Moth. By S. W. Foster, Engaged in Deciduous Fruit Insect Investigations. VI. Life History of the Codling Moth in Northwestern Pennsylvania. By A. G. Hammar, Engaged in Deciduous Fruit Insect Investigations. VII. (Revised.) The One-spray Method in the Control of the Codling Moth and the Plum Curculio. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and E. L. Jenne, E. W. Scott, and R. W. Braucher, Engaged in Deciduous Fruit Insect Investigations. VIII. Tests of Sprays against the European Fruit Lecanium and the European Pear Scale. By P. R. Jones, Engaged in Deciduous Fruit Insect Investigations. Pp. 167, pls. 13, figs. 37. (Bulletin 80, Bureau of Entomology.) Price 35 cents.

Papers on Cereal and Forage Insects, The Legume Pod Moth. The Legume Pod Maggot. By James A. Hyslop, Agent and Expert, Cereal and Forage Insect Investigations. Pp. 89-108, pl. 1, figs. 17. (Bulletin 95, Part 6, Bureau of Entomology.) Price 5 cents.

The Grape Scale. By James F. Zimmer, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 115-124, pls. 3, figs. 2. (Bulletin 97, Part VII, Bureau of Entomology.) Price 5 cents.

Preliminary Report on the Alfalfa Weevil. By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 47, pls. 13, figs. 27. (Bulletin 112, Bureau of Entomology.) Price 15 cents.

Technical Results from the Gipsy Moth Parasite Laboratory. V. Experimental Parasitism: A Study of the Biology of *Limnerium validum* (Cresson). By P. H. Timberlake, Agent and Expert, Gipsy Moth Parasite Laboratory. Pp. 71-92, figs. 10. (Bulletin 19, Part 5, Bureau of Entomology, Technical Series.) Price 5 cents.

Studies on a New Species of *Toxoptera*, with an Analytical Key to the Genus and Notes on Rearing Methods. By W. J. Phillips and J. J. Davis, Entomological Assistants, Cereal and Forage Insect Investigations. Pp. 16, pl. 1, figs. 9. (Bulletin 25, Part 1, Technical Series, Bureau of Entomology.) Price 5 cents.

The Use of Underground Water for Irrigation at Pomona, Cal. By C. E. Tait, Irrigation Engineer in Charge of Work in Southern California. Under the direction of Samuel Fortier, Chief of Irrigation Investigations. (Based on work done in cooperation between the Office of Experiment Stations and the State of California.) Pp. 99, pls. 5, figs. 8. (Bulletin 236, revised, Office of Experiment Stations.) Price 20 cents.

Experiment Station Record, Vol. XXVI, No. 5, April, 1912. E. W. Allen, Ph. D., editor. Pp. 401-500. Price 15 cents.

*Same*, Vol. XXVI, No. 6, Abstract Number, Pp. 501-600.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

**Second-growth Hardwoods in Connecticut.** By Earl H. Frothingham, Forest Assistant. (In cooperation with the Connecticut Agricultural Experiment Station, E. H. Jenkins, director.) Pp. 70, pls. 6, figs. 3. (Bulletin 96, Forest Service.) Price 15 cents.

**The Preservation of Mine Timbers.** By E. W. Peters, Engineer in Wood Preservation. Pp. 27, pls. 4, figs. 7. (Bulletin 107, Forest Service.) Price 10 cents.

**Monthly Bulletin of the Library.** March, 1912. Vol. 3, No. 3. Pp. 72-110. Price 5 cents.

**Seeds and Plants Imported During the Period from April 1 to June 30, 1911: Inventory No. 27; Nos. 30462-31370.** Pp. 99. (Bulletin 242, Bureau of Plant Industry.) Price 10 cents.

#### CIRCULARS.

Price 5 cents each.

#### NEW.

**Blackleg: Its Nature, Cause, and Prevention.** By Victor A. Nörgaard. Revised by John R. Mohler, Chief of the Pathological Division. Pp. 22, fig. 1. (Circular 31, revised, Bureau of Animal Industry.)

**A New Method for Determining Fat and Salt in Butter, Especially Adapted for Use in Creameries.** By Roscoe H. Shaw, Chemist, Dairy Division. Pp. 8, fig. 1. (Circular 202, Bureau of Animal Industry.)

**Amendment to Regulation 3, Providing for Certificates and Affidavits for Horses Imported from Any Part of the World Except North America.** Pp. 2. (Amendment 1 to B. A. I. Order 180.)

**The Cotton Worm or Cotton Caterpillar (*Alabama argillacea*).** By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations. Pp. 10, fig. 1. (Circular 153, Bureau of Entomology.)

**The Cause of European Foul Brood.** By G. F. White, Expert in Bacteriology. Pp. 15, figs. 10. (Circular 157, Bureau of Entomology.)

**Quantity and Quality of Creosote Found in Two Treated Piles after Long Service.** By E. Bateman, Chemist in Forest Products. Pp. 8, pl. 1., fig. 1. (Circular 199, Forest Service.)

**Quebracho Wood and Its Substitutes.** By Clayton D. Mell, Assistant Dendrologist, and Warren D. Brush, Expert. Pp. 12, pls. 2, fig. 1. (Circular 202, Forest Service.)

**Results of Boys' Demonstration Work in Corn Clubs in 1911.** Pp. 7, figs. 2. (Document 741, Bureau of Plant Industry.)

**Selection of Cotton and Corn Seed on Southern Farms.** Pp. 8, figs. 4. (Document 747, Bureau of Plant Industry.)

**Emergency Crops for Overflowed Lands in the Mississippi Valley.** Pp. 8. (Document 756, Bureau of Plant Industry.)

**Monthly List of Publications, April, 1912.** Pp. 4. (Document 763, Division of Publications.)

**Foreign Crops, April, 1912.** (British India.) Prepared by Harry C. Graham, Acting Chief of the Division of Research and Reference. Pp. 15. (Circular 36, Bureau of Statistics.)

**Crop Reporter.** Vol. 14, No. 5. Pp. 33-40. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

(Price 5 cents each.)

#### NEW.

**The English Sparrow as a Pest.** By Ned Dearborn, Expert Biologist, Biological Survey. Pp. 24, figs. 17. (Farmers' Bulletin 493.)

This bulletin is designed to supersede Farmers' Bulletin No. 383, on the same subject. It gives directions for aiding other birds against the English sparrow, and methods for its destruction, with remarks on its use as food.

**Alfalfa Seed Production.** By J. M. Westgate, Agronomist in Charge of Clover Investigations, Bureau of Plant Industry, Roland McKee, Scientific Assistant, Bureau of Plant Industry, and M. W. Evans, Scientific Assistant, Bureau of Plant Industry. With Notes on the Insect Enemies of Alfalfa Seed, by F. M. Webster, in Charge of Cereal and Forage Insect Investigations, Bureau of Entomology. Pp. 36, figs. 14. (Farmers' Bulletin 495.)

This bulletin deals with the conditions affecting the production of alfalfa seed, the management of the fields and harvesting the seed crop, the value of the straw, seed production in different sections, alfalfa in cultivated rows, alfalfa seed compared with hay as a money crop, seed yield, insect and weed enemies, adulteration and vitality of the seed and the commercial aspect of alfalfa seed production.

**Raising Belgian Hares and Other Rabbits.** By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 16, fig. 5. (Farmers' Bulletin 496.)

This bulletin is issued as a result of numerous inquiries in regard to the breeding and care of rabbits. It contains remarks on the rabbit as food and the history and characteristics of the Belgian hare. It gives directions for the selection of stock, the construction of hutches and pens, breeding and marketing, etc., and contains a short chapter on the ailments of rabbits.

**Some Common Game, Aquatic, and Rapacious Birds in Relation to Man.** By W. L. McAtee and F. E. L. Beal, Assistants, Biological Survey. Pp. 30, figs. 14. (Farmers' Bulletin 497.)

This bulletin tells of the habits and economic importance of the prairie chicken, California quail, ruffed grouse, introduced pheasants, upland plover, killdeer, horned grebe, Franklin's gull, terns, Cooper's hawk, rough-legged hawk, sparrow hawk, long-eared owl, and the screech owl.

**The Control of the Boll Weevil.** By W. D. Hunter, in Charge of Southern Field-crop Insect Investigations. Pp. 14. (Farmers' Bulletin 500.)

The greater part of the matter contained in this bulletin is extracted from Bulletin No. 114, of the Bureau of Entomology. It mentions the difficulties in controlling this pest and gives directions for work for its control, by fall and winter destruction of the weevils, early crop growing, encouragement of insect enemies of the weevil, its control at gins, the fumigation of the seed, etc.

#### SEPARATES.

(Price 5 cents each.)

#### NEW.

**Our Mid-Pacific Bird Reservation.** By Henry W. Henshaw, Chief, Bureau of Biological Survey. Pp. 155-164, pls. 2, figs. 2. (Separate 557, Yearbook, 1911.)

**Bird Enemies of the Codling Moth.** By W. L. McAtee, Assistant Biologist, Bureau of Biological Survey. Pp. 237-246, pls. 2. (Separate 564, Yearbook, 1911.)

**Crawfish as Crop Destroyers.** By A. K. Fisher, in Charge of Economic Investigations, Bureau of Biological Survey. Pp. 321-324, pl. 1. (Separate 571, Yearbook, 1911.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau, or the Superintendent of Documents, Government Printing Office, at the prices noted.]

**Bulletin of the Mount Weather Observatory.** Sounding Balloon Number. Vol. 4, Part 4. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 183-304, figs. 33. (W. B. No. 478.) Price 25 cents.

**Bulletin of the Mount Weather Observatory,** Vol. 4, Part 5. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 305-395, figs. 14, charts 6. (W. B. 480.) Price 25 cents.

**National Weekly Weather Bulletin,** Nos. 7, 8, 9, 10 for May, 1912. Price 25 cents a year.

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Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.  
No. 767.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 30, 1912.

## MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1912.]

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### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Columbia County, Georgia. By Charles N. Mooney and Arthur E. Taylor. Pp. 47, fig. 1, map. (From F. O. Soils, 1911.) Price 15 cents.  
 Soil Survey of Ontario County, New York. By M. Earl Carr, Ora Lee, Jr., and Gustavus B. Maynadier, of the U. S. Department of Agriculture, and D. J. Hallock and V. J. Frost, of the New York State College of Agriculture. Pp. 55, fig. 1, map. (From F. O. Soils, 1910.) Price 15 cents.

### REPORT.

#### NEW.

Report of the Chief of the Weather Bureau, 1910-11. By Willis L. Moore. Pp. 260, maps 4. Price 75 cents.

### BULLETINS.

#### NEW.

The Canning of Foods: A Description of the Methods Followed in Commercial Canning. By A. W. Bitting, Food Technologist, Bureau of Chemistry. Pp. 77. (Bulletin 151, Bureau of Chemistry.) Price 10 cents.  
 The Elimination of Caffein: An Experimental Study on Herbivora and Carnivora. By William Salant, Chief Pharmacological Laboratory, Division of Drugs, and J. B. Rieger, Assistant Chemist. Pp. 23. (Bulletin 157, Bureau of Chemistry.) Price 5 cents.  
 Experiment Station Record, Vol. XXVI, No. 7, May, 1912. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Heterozygosis in Evolution and in Plant Breeding. By E. M. East, Assistant Professor of Experimental Plant Morphology, Harvard University, and Collaborator of the Bureau of Plant Industry, assisted by H. K. Hayes, Plant Breeder of the Connecticut Agricultural Experiment Station. (In cooperation with the Connecticut Agricultural Experiment Station and Harvard University.) Pp. 58, pls. 8. (Bulletin 243, Bureau of Plant Industry.) Price 15 cents.

The Structure and Development of Crown Gall: A Plant Cancer. By Erwin F. Smith, Pathologist in Charge of Laboratory of Plant Pathology, and Nellie A. Brown and Lucia McCulloch, Scientific Assistants. Pp. 60, pls. 109, figs. 2. (Bulletin 255, Bureau of Plant Industry.) Price 50 cents.

#### REPRINTS.

The Broad-nosed Grain Weevil. The Long-headed Flour Beetle. (Bulletin 96, Part 2, Bureau of Entomology.) Price 5 cents.

Irrigation in the State of Washington. (Bulletin 214, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XIV, No. 8, April, 1903. Price 10 cents.

*Same*, Vol. XV, No. 7, March, 1904. Price 10 cents.

*Same*, XVIII, No. 12, August, 1907. Price 10 cents.

California Tanbark Oak. Part I. Tanbark Oak and the Tanning Industry. Part 2. Utilization of the Wood of Tanbark Oak. Appendix. Distribution of Tannin in Tanbark Oak. (Bulletin 75, Forest Service.) Price 15 cents.

The Commercial Hickories. (Bulletin 80, Forest Service.) Price 15 cents.

Preservative Treatment of Poles. (Bulletin 84, Forest Service.) Price 15 cents.

Uses of Commercial Woods of the United States: I. Cedars, Cypress, and Sequoias. (Bulletin 95, Forest Service.) Price 10 cents.

Uses of Commercial Woods of the United States: II. Pines. (Bulletin 99, Forest Service.) Price 15 cents.

A beneficial Organic Constituent of Soils: Creatinine. Introduction: Importance of Beneficial Soil Constituents. I. The Isolation of Creatinine from Soils. II. The Origin of Creatinine in Soils. III. Effect of Creatinine on Growth and Absorption. (Bulletin 83, Bureau of Soils.) Price 10 cents.

#### CIRCULARS.

#### NEW.

The Calcium Carbid Method for Determining Moisture. By H. C. McNeil, Contracts Laboratory. Pp. 8, fig. 1. (Circular 97, Bureau of Chemistry.)

Utah Juniper in Central Arizona. By Frank J. Phillips and Walter Mulford, Collaborators. Pp. 19, pls. 2, fig. 1. (Circular 197, Forest Service.)

Strength Tests of Cross-arms. By Thomas R. C. Wilson, Assistant Engineer in Forest Products. Pp. 15, figs. 2. (Circular 204, Forest Service.)

Monthly List of Publications, May, 1912. Pp. 4. (Document 764, Division of Publications.)

Crop Reporter, Vol. 14, No. 6, June, 1912. Pp. 41-48. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

#### NEW.

Lawn Soils and Lawns. By Oswald Schreiner and J. J. Skinner, Soil Scientists, Bureau of Soils, and L. C. Corbett, Horticulturist, and F. L. Mulford, Landscape Gardener, Bureau of Plant Industry. Pp. 48, figs. 19. (Farmers' Bulletin 494.)

This bulletin discusses the desirable characteristics of lawns, the adaptability of soils of different textures for lawn making, the influence of subsoils on lawns, the importance of soil moisture and the movement of water in soils of different types, the effect of building débris on soil, the making and treatment of lawns, etc.

**Experiment Station Work, LXIX.** (Compiled from the publications of the agricultural experiment stations.) Pp. 24, figs. 5. (Farmers' Bulletin 499.)

Contents: Top-dressing pastures—Making hay—A fresh-air brooder—Roosting closet for poultry—Exhibition contests of dairy products—Blind staggers of horses—Adobe as a building material—White and color washes.

#### PUBLICATIONS OF THE WEATHER BUREAU.

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Monthly Weather Review, Vol. 40, No. 3, March, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 321-486, maps 2, charts 8. (W. B. No. 481.) Price 35 cents; \$4 a year.

Bulletin of the Mount Weather Observatory, Vol. 4, Part 6. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 397-456, charts 6, figs. 7. (W. B. No. 482.) Price 25 cents.

Contents and Index to Bulletin of the Mount Weather Observatory, Vol. 4. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 6. (W. B. No. 483.) Price 5 cents.

National Weekly Weather Bulletin, Nos. 11, 12, 13, 14, for June, 1912. Price 25 cents a year.

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Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*





This circular will be sent regularly to all who apply for it.

No. 768.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., July 31, 1912.

## MONTHLY LIST OF PUBLICATIONS.

[JULY, 1912.]

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### ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Randolph County, Alabama. By R. T. Avon Burke, of the U. S. Department of Agriculture, and A. C. McGehee and W. E. Wilkinson, of the Alabama Department of Agriculture and Industries. Pp. 40, fig. 1, map. (From F. O. Soils, 1911.) Price 5 cents.

A Reconnaissance Soil Survey of South-Central Pennsylvania. By Charles F. Shaw and W. C. Byers, of the U. S. Department of Agriculture, and W. G. Ross, of the Pennsylvania State College. Pp. 77, figs. 3, map. (From F. O. Soils, 1910.) Price 5 cents.

Reconnaissance Soil Survey of the Western Part of the Puget Sound Basin, Washington. By A. W. Mangum and party. Pp. 116, pls. 3, figs. 6, maps 4. (From F. O. Soils, 1910.) Price 75 cents.

Soil Survey of the Bayfield Area, Wisconsin. By Gustavus B. Maynadier and W. J. Geib, of the U. S. Department of Agriculture, and Leroy Schoenmann and F. L. Musback, of the Wisconsin Geological and Natural History Survey. Pp. 28, fig. 1, map. (From F. O. Soils, 1910.) Price 5 cents.

### BULLETINS.

#### NEW.

Fattening Calves in Alabama. Investigations in Cooperation with the Alabama Agricultural Experiment Station. By Dan T. Gray, Professor of Animal Husbandry, Alabama Polytechnic Institute, and W. F. Ward, Junior Animal Husbandman, Bureau of Animal Industry. Pp. 40, pls. 3. (Bulletin 147, Bureau of Animal Industry.) Price 10 cents.

The Plum Curculio. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and E. L. Jenne, Agent and Expert, Deciduous Fruit Insect Investigations. Pp. 250, pls. 20, figs. 36. (Bulletin 103, Bureau of Entomology.) Price 50 cents.

Spraying Experiments Against the Grape Leafhopper in the Lake Erie Valley in 1911.. By Fred Johnson, Agent and Expert. Pp. 13, pls. 3, figs. 3. (Bulletin 116, Part 1, Bureau of Entomology.) Price 5 cents.

The Storage of Water for Irrigation Purposes, Part 1. Earth-Fill Dams and Hydraulic-Fill Dams. By Samuel Fortier, Chief of Irrigation Investigations, and F. L. Bixby, Irrigation Engineer. Pp. 95, pls. 20, figs. 41. (Bulletin 249, Part 1, Office of Experiment Stations.) Price 30 cents.

The Storage of Water for Irrigation Purposes, Part 2. Timber Dams and Rock-Fill Dams. By Samuel Fortier, Chief of Irrigation Investigations, and F. L. Bixby, Irrigation Engineer. Pp. 64, pls. 8, figs. 38. (Bulletin 249, Part 2, Office of Experiment Stations.) Price 15 cents.

**Insects Injurious to Corn.** By David T. Fullaway, Entomologist. Pp. 20, figs. 8. (Bulletin 27, Hawaii Agricultural Experiment Station.) Price 5 cents.

**Experiment Station Record,** Vol. XXVI, No. 8, June, 1912. E. W. Allen, Ph. D., Editor. Pp. i-ix, 701-800. Price 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

**Monthly Bulletin of the Library.** Vol. 3, No. 4, April, 1912. Pp. 112-142. (Library.) Price 5 cents.

**The Pecan.** By C. A. Reed, Special Agent in Nut-Culture Investigations. Pp. 58, figs. 25. (Bulletin 251, Bureau of Plant Industry.) Price 10 cents.

**The Relation of Barium to the Loco-Weed Disease.** I. A Field Study on the Relation of Barium to the Loco-Weed Disease. By C. Dwight Marsh, Physiologist, Drug Plant, Poisonous-Plant, Physiological and Fermentation Investigations. II. Laboratory Studies on the Relation of Barium to the Loco-Weed Disease. By C. L. Alsberg and O. F. Black, Chemical Biologists, Drug Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 67, figs. 15. (Bulletin 246, Bureau of Plant Industry.) Price 10 cents.

**The Physical Testing of Rock for Road Building, Including the Methods Used and the Results Obtained.** By Albert T. Goldbeck, Testing Engineer, and Frank H. Jackson, Assistant, Office of Public Roads. Pp. 96, figs. 20. (Bulletin 44, Office of Public Roads.) Price 15 cents.

#### REPRINTS.

**Food of the Woodpeckers of the United States.** (Bulletin 37, Bureau of Biological Survey.) Price 35 cents.

**Principal Insect Enemies of the Sugar Beet.** (Bulletin 43, Bureau of Entomology.) Price 5 cents.

**Some Insects Injurious to Forests.** (Bulletin 58, Bureau of Entomology.) Price 20 cents.

**The Pear Thrips and Its Control.** (Bulletin 80, Part 4, Bureau of Entomology.) Price 10 cents.

**Forest Trees of the Pacific Slope.** (Forest Service. Miscellaneous.) Price 60 cents.

**The Woodsman's Handbook.** (Bulletin 36, Forest Service.) Price 25 cents.

**How to Grow and Plant Conifers in the Northeastern States.** (Bulletin 76, Forest Service.) Price 10 cents.

**Chaparral Studies in the Dwarf Forests, or Elfin Wood, of Southern California.** (Bulletin 85, Forest Service.) Price 15 cents.

**Windbreaks: Their Influence and Value.** (Bulletin 86, Forest Service.) Price 30 cents.

**Properties and Uses of Douglas Fir.** (Bulletin 88, Forest Service.) Price 15 cents.

**The Date Palm.** (Bulletin 53, Bureau of Plant Industry.) Price 20 cents.

**Examination and Classification of Rocks for Road Building.** (Bulletin 37, Office of Public Roads.) Price 15 cents.

**Fertilizers for Wheat Soils.** (Bulletin 66, Bureau of Soils.) Price 10 cents.

**Soil Erosion.** (Bulletin 71, Bureau of Soils.) Price 35 cents.

#### CIRCULARS.

Price 5 cents each.

#### NEW.

**Amendment to Paragraph 1 of Section 17 of Regulation 13, of B. A. I. Order 150.** Pp. 2. (Amendment 3 to B. A. I. Order 150.)

**Amendment 3 to Rule 2, Revision 3. To Prevent the Spread of Scabies in Cattle.** (Amendment 3 to B. A. I. Order 167.)

**The Score-card System of Dairy Inspection.** By George M. Whitaker. Pp. 32. (A revision of Bureau of Animal Industry Circular 139.) (Circular 199, Bureau of Animal Industry.)

**A Simple Butter Color Standard.** By S. Henry Ayers, Bacteriologist, Dairy Division. Pp. 3, fig. 1. (Circular 200, Bureau of Animal Industry.)

**Tuberculosis of Hogs.** By John R. Mohler, Chief of the Pathological Division, and Henry J. Washburn, Senior Pathologist, Pathological Division. Pp. 40, figs. 5. (A Revision of Bureau of Animal Industry Circular 144.) (Circular 201, Bureau of Animal Industry.)

**Practical Suggestions for the Preparation of Frozen and Dried Eggs.** A Statement Based on the Investigation Made in the Producing Section During the Summer of 1911. By M. E. Pennington, Chief, Food Research Laboratory. Pp. 12, pls. 3, fig. 1. (Circular 98, Bureau of Chemistry.)

**The Estimation of Minute Amounts of Arsenic in Foods.** By Edmund Clark and A. G. Woodman, Assistant Chemists, Boston Food and Drug Inspection Laboratory. Pp. 7, figs. 3. (Circular 99, Bureau of Chemistry.)

**The Greenhouse Thrips.** By H. M. Russell, Entomological Assistant. Pp. 9, figs. 7. (Circular 151, Bureau of Entomology.)

**The Rice Water-Weevil and Methods for its Control.** By E. S. Tucker, Entomological Assistant. Pp. 20, figs. 2. (Circular 152, Bureau of Entomology.)

**The Leaf Blister Mite.** By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 6, figs. 4. (Circular 154, Bureau of Entomology.)

**Insect Damage to Mine Props and Methods of Preventing the Injury.** By T. E. Snyder, Agent and Expert, Forest Insect Investigations. Pp. 4. (Circular 156, Bureau of Entomology.)

**The Clover Mite.** By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 5, figs. 3. (Circular 158, Bureau of Entomology.)

**Damage to the Wood of Fire-Killed Douglas Fir, and Methods of Preventing Losses, in Western Washington and Oregon.** By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 4. (Circular 159, Bureau of Entomology.)

**A Working Erosion Model for Schools.** By Don Carlos Ellis, in Charge of Educational Cooperation, Forest Service. Pp. 11, figs. 4. (Circular 117, Office of Experiment Stations.)

**Emory Oak in Southern Arizona.** By Frank J. Phillips, Collaborator. Pp. 15, pls. 5. (Circular 201, Forest Service.)

**Commercial Creosotes with Special Reference to Protection of Wood from Decay.** By Carlile P. Winslow, in Charge of Cooperative Projects, Forest Products Laboratory. Pp. 38, figs. 17. (Circular 206, Forest Service.)

**The Seed-Corn Situation.** By C. P. Hartley, Physiologist in Charge of Corn Investigations. Pp. 13, figs. 2. (Circular 95, Bureau of Plant Industry.)

**Results of Cotton Experiments in 1911.** By O. F. Cook. Pp. 21. (Circular 96, Bureau of Plant Industry.)

**Monthly List of Publications, June, 1912.** Pp. 4. (Document 767, Division of Publications.)

**City Street Sweepings as a Fertilizer.** By J. J. Skinner and J. H. Beattie, Scientists in Soil Fertility Investigations. Pp. 8, figs. 2. (Circular 66, Bureau of Soils.)

**Sponge Spicules in Swamp Soils.** By R. O. E. Davis, Scientist in Physical Laboratory Investigations. Pp. 4, fig. 1. (Circular 67, Bureau of Soils.)

**Meadow. [Soil.]** By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 21. (Circular 68, Bureau of Soils.)

**Alunite as a Source of Potash.** By W. H. Wagaman, Scientist in Fertilizer Resource Investigations. Pp. 4, figs. 2. (Circular 70, Bureau of Soils.)

**The Extraction of Potash from Silicate Rocks.** By William H. Ross, Scientist in Physical and Chemical Laboratory Investigations. Pp. 10. (Circular 71, Bureau of Soils.)

**Annual and Average Production of, and International Trade in, Important Agricultural Products, by Countries.** By Royal T. McKenna. Pp. 30. (Circular 31, Bureau of Statistics.)

**Foreign Crops, May-June, 1912.** By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 19. (Circular 37, Bureau of Statistics.)

**Crop Reporter, Vol. 14, No. 7, July, 1912.** Pp. 49-56. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

**Regulations Governing the Meat Inspection of the United States Department of Agriculture.** (Order 150, Bureau of Animal Industry.)

**Syllabus of Illustrated Lecture on Tobacco Growing.** Pp. 15. (Farmers' Institute Lecture 9, Office of Experiment Stations.)

#### FARMERS' BULLETINS.

##### NEW.

**Methods of Exterminating the Texas-Fever Tick.** By H. W. Graybill, D. V. M., Assistant Zoologist, Zoological Division, Bureau of Animal Industry. Pp. 42, figs. 19. (Farmers' Bulletin 498.)

This bulletin states the progress made in tick eradication, gives the life history of the tick, methods of eradication, directions for dipping and spraying, and specifications for a concrete cattle-dipping vat.

**Cotton Improvement Under Weevil Conditions.** By O. F. Cook, Bionomist in Charge of Crop Acclimatization and Adaptation Investigations, Bureau of Plant Industry. Pp. 22. (Farmers' Bulletin 501.)

This bulletin refers to the relation of improvement to foreign competition, a shorter season for the crop, suggests simultaneous planting by a community, and describes a new type of long-staple cotton from Mexico.

**Timothy Production on Irrigated Land in the Northwestern States.** By M. W. Evans, Scientific Assistant in Agronomy, Office of Forage-Crop Investigations, Bureau of Plant Industry. Pp. 32. (Farmers' Bulletin 502.)

This bulletin describes condition influencing the growth of timothy, methods of seeding, fertilizers for, and methods of harvesting, grading, and marketing.

#### SEPARATES.

##### NEW.

**Seaman Asahel Knapp.** By Beverly T. Galloway, Chief, Bureau of Plant Industry. Pp. 151-154, pl. 1. (Separate 556, Yearbook, 1911.)

**The Reduction of Waste in Marketing.** By Frank Andrews, Assistant Chief of Division of Production and Distribution, Bureau of Statistics. Pp. 165-176. (Separate 558, Yearbook, 1911.)

**Primary Principles in the Prevention and Treatment of Disease in Poultry.** By George Byron Morse, Senior Bacteriologist, Pathological Division, Bureau of Animal Industry. Pp. 177-192. (Separate 559, Yearbook, 1911.)

Relation Between Rotation Systems and Insect Injury in the South. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations, Bureau of Entomology. Pp. 201-210. (Separate 561, Yearbook, 1911.)

Important American Soils. By Jay A. Bonsteel, Scientist in Soil Survey, Bureau of Soils. Pp. 223-236. (Separate 563, Yearbook 1911.)

Some Misconceptions Concerning Dry Farming. By E. C. Chilcott, Agriculturist in Charge of Dry Land Agriculture Investigations, Bureau of Plant Industry. Pp. 247-256. (Separate 565, Yearbook, 1911.)

Seasonal Distribution of Labor on the Farm. By W. J. Spillman, Agriculturist in Charge of the Office of Farm Management, Bureau of Plant Industry. Pp. 269-284, figs. 6. (Separate 567, Yearbook, 1911.)

Possibilities and Need of Supplemental Irrigation in the Humid Regions. By Milo B. Williams, in Charge of Irrigation Investigations in the Humid Region, Office of Experiment Stations. Pp. 309-320, pls. 2. (Separate 570, Yearbook, 1911.)

Rotations in the Corn Belt. By C. B. Smith, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 325-336. (Separate 572, Yearbook, 1911.)

The Water Economy of Dry-Land Crops. By Thomas H. Kearney and H. L. Shantz, Physiologists, Alkali and Drought Resistant Plant Breeding Investigations, Bureau of Plant Industry. Pp. 351-362. (Separate 574, Yearbook, 1911.)

The Present Outlook for Irrigation Farming. By Carl S. Scofield, Agriculturist in Charge of Western Agricultural Extension, Bureau of Plant Industry. Pp. 371-382. (Separate 576, Yearbook, 1911.)

Commercial Methods of Canning Meats. By C. N. McBryde, M. D., Senior Bacteriologist, Biochemic Division, Bureau of Animal Industry. Pp. 383-390, pls. 3. (Separate 577, Yearbook, 1911.)

Cotton Improvement on a Community Basis. By O. F. Cook, in Charge of Cotton-Breeding Investigations, Bureau of Plant Industry. Pp. 397-410. (Separate 579, Yearbook, 1911.)

Promising New Fruits. By William A. Taylor, Pomologist and Assistant Chief, and H. P. Gould, Pomologist in Charge of Fruit District Investigations, Bureau of Plant Industry. Pp. 423-438, pls. 8. (Separate 581, Yearbook, 1911.)

Green Vegetables and Their Uses in the Diet. By C. F. Langworthy, Chief of Nutrition Investigation, Office of Experiment Stations. Pp. 439-452, fig. 1. (Separate 582, Yearbook, 1911.)

Subsoil Water of Central United States. By W. J. McGee, Soil Water Expert, Bureau of Soils. Pp. 479-490. (Separate 585, Yearbook, 1911.)

Statistics of Principal Crops, 1911. Pp. 519-614. (Separate 587, Yearbook, 1911.)

The Occupation of the Agricultural College Graduate. By Dick J. Crosby, Specialist in Agricultural Education. Pp. 5. (Document 1463, from O. E. S. Record. Vol. 26, No. 7.)

## REPRINTS.

Smyrna Fig Culture in the United States. (Yearbook Separate 196.)

The Handling of Fruit for Transportation. (Yearbook Separate 387.)

## PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau, or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 40, No. 5, May, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 659-813, maps 2, charts 8. (W. B. No. 484.) Price 35 cents; \$4 a year.

National Weekly Weather Bulletin, Nos. 15, 16, 17, 18, 19, for July, 1912. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this Department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the Department, the cost being about 5 cents per square inch, payable to the maker on receipt of the cuts.

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



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This circular will be sent regularly to all who apply for it.

No. 771.

United States Department of Agriculture,  
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., August 31, 1912.

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1912.]

NOTE.—Copies of the publications listed herein, **except publications of the Weather Bureau**, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the law of January 12, 1895, is empowered to have reprints made and sell them at the prices herein given.

The Superintendent of Documents is not connected with the Department of Agriculture, and all remittances for publications should be sent directly to Superintendent of Documents, Government Printing Office, Washington, D. C., by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Mobile County, Alabama. By Gustavus B. Maynadier, W. J. Geib, and Risden T. Allen, of the United States Department of Agriculture, and W. E. Wilkinson, L. Cantrell, and A. M. O'Neal, of the Alabama Department of Agriculture and Industries. Pp. 42, pl. 1, fig. 1, map. (From F. O. Soils, 1911.) Price, 25 cents.

Soil Survey of Glynn County, Georgia. By David D. Long and James E. Ferguson. Pp. 55, pl. 1, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

BULLETINS.

NEW.

A Preliminary Synopsis of Cerambycoid Larvae. By J. L. Webb, Entomological Assistant. Pp. 149-155, pl. 27. (Bulletin 20, Part 5, Technical Series, Bureau of Entomology.) Price, 5 cents.

The Broad-Bean Weevil. By F. H. Chittenden, Sc. D., in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 59-82, figs. 11-20. (Bulletin 96, Part 5, Bureau of Entomology.) Price, 5 cents.

Life-History Studies on the Codling Moth in Michigan. By A. G. Hammar, Entomological Assistant, Deciduous Fruit Insect Investigations. Pp. 86, pls. 3, figs. 22. (Bulletin 115, Part 1, Bureau of Entomology.) Price, 15 cents.

Arkansas State Agricultural Schools. By C. H. Lane, Assistant in Agricultural Education, Office of Experiment Stations. Pp. 20, pls. 5, fig. 1. (Bulletin 250, Office of Experiment Stations.) Price, 10 cents.

Distillation of Resinous Wood by Saturated Steam. By L. F. Hawley, Chemist in Forest Products, and R. C. Palmer, Assistant Chemical Engineer in Forest Products. Pp. 31, figs. 7. (Bulletin 109, Forest Service.) Price, 5 cents.

Monthly Bulletin of the Library. Vol. 3, No. 5, May, 1912. Pp. 144-178. (Library.) Price, 5 cents.

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Monthly Bulletin of the Library. Vol. 3, No. 6, June, 1912. Pp. 181-206. (Library.) Price, 5 cents.

Investigations of the Potato Fungus Phytophthora Infestans. By L. R. Jones, Professor of Plant Pathology, College of Agriculture of the University of Wisconsin, and Collaborator of the Bureau of Plant Industry; N. J. Giddings, Plant Pathologist, West Virginia Agricultural Experiment Station, and Collaborator of the Bureau of Plant Industry; and B. F. Lutman, Professor of Plant Pathology, University of Vermont. (In cooperation with the Vermont Agricultural Experiment Station.) Pp. 100, pls. 10, figs. 10. (Bulletin 245, Bureau of Plant Industry.) Price, 30 cents.

A Knot of Citrus Trees Caused by Sphaeropsis Tumefaciens. By Florence Hedges, Assistant Pathologist, Laboratory of Plant Pathology, and L. S. Tenny, formerly Pomologist in Fruit-Marketing, Transportation, and Storage Investigations (and earlier Assistant in Plant Pathology). Pp. 74, pls. 10, figs. 8. (Bulletin 247, Bureau of Plant Industry.) Price, 15 cents.

Oil-Mixed Portland Cement Concrete. By Logan Waller Page, Director, Office of Public Roads. Pp. 28, pls. 5, figs. 7. (Bulletin 46, Office of Public Roads.) Price, 10 cents.

REPRINT.

The Improvement of the Farm Egg. (Bulletin 141, Bureau of Animal Industry.) Price 10 cents.

CIRCULARS.

NEW.

The Present Outbreak of the Grass Worm or Fall Army Worm and Recommendations for Its Control. Pp. 4, figs. 3. (Circular 40, Revised, Office of the Secretary.)

Amendment 13 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. Pp. 2. (Amendment 13 to B. A. I. Order 146.)

Amendment 4 to Rule 2, Revision 3.—To Prevent the Spread of Scabies in Cattle. Pp. 2. (Amendment 4 to B. A. I. Order 167.)

Amendment 2 to B. A. I. Order 186 (Regulations Governing the Certification of Recognized Breeds and Pure-Bred Animals). P. 1. (Amendment 2 to B. A. I. Order 186.)

Amendment 2 to Rule 1, Revision 9.—To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle. Pp. 2. (Amendment 2 to B. A. I. Order 187.)

Special Order Modifying the Tuberculin-Test Requirement for Canadian Cattle Imported Temporarily for Exhibition Purposes at the Fair to be Held at Ogdensburg, N. Y. (Order 188, Bureau of Animal Industry.)

Officials, Organizations, and Educational Institutions Connected with the Dairy Interests (1912). Pp. 26. (Circular 204, Bureau of Animal Industry.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1912. Pp. 16. (Circular 88, Bureau of Biological Survey.)

Regulations for the Protection of Game in Alaska, 1912. Pp. 2. (Circular 89, Bureau of Biological Survey.)

Grading Rosin at the Still. By F. P. Veitch and C. F. Sammet, Leather and Paper Laboratory. Pp. 4, fig. 1. (Circular 100, Bureau of Chemistry.)

The Ignition of Precipitates without the Use of the Blast Lamp. By Percy H. Walker and J. B. Wilson, Contracts Laboratory. Pp. 8. (Circular 101, Bureau of Chemistry.)

Syllabus of Illustrated Lecture on Silage and Silo Construction for the South. By Andrew M. Soule, B. S. A., Sc. D., Director of Virginia Agricultural Experiment Station, Blacksburg, Virginia. Pp. 32. (Farmer's Institute Lecture 5 (rev.), Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations During June, 1912. Pp. 7. (Document 1466, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations During July, 1912. Pp. 6. (Document 1468, Office of Experiment Stations.)

The Mangum Terrace in Its Relation to Efficient Farm Management. By J. S. Cates, Assistant Agriculturist, Office of Farm Management. Pp. 11, figs. 9. (Circular 94, Bureau of Plant Industry.)

A Preliminary Report on Rice Growing in the Sacramento Valley. By Charles E. Chambliss, Agronomist in Charge of Rice Investigations, Office of Grain Investigations. Pp. 10, pls. 4. (Circular 97, Bureau of Plant Industry.)

A Method for the Determination of the Specific Gravity of Wheat and Other Cereals. By C. H. Bailey and L. M. Thomas, Assistants in Grain Standardization. Pp. 7, fig. 1. (Circular 99, Bureau of Plant Industry.)

Monthly List of Publications, July, 1912. Pp. 4. (Document 768, Division of Publications.)

**Muck and Peat.** By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 15. (Circular 65, Bureau of Soils.)

**Marsh and Swamp.** By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 14. (Circular 69, Bureau of Soils.)

**Cotton Crop of the United States, 1790-1911.** Compiled under the direction of George K. Holmes, Chief of the Division of Production and Distribution. Pp. 9. (Circular 32, Bureau of Statistics.)

**Tobacco Crop of the United States, 1612-1911.** Compiled under the direction of George K. Holmes, Chief of the Division of Production and Distribution. Pp. 12. (Circular 33, Bureau of Statistics.)

**Hop Crop of the United States, 1790-1911.** Compiled under the direction of George K. Holmes, Chief of the Division of Production and Distribution. Pp. 8. (Circular 35, Bureau of Statistics.)

**Tobacco Report.** July 1, 1912. Prepared by J. P. Killebrew, Special Agent for Tobacco. Pp. 7. (Circular 38, Bureau of Statistics.)

**Foreign Crops,** July, 1912. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 15. (Circular 39, Bureau of Statistics.)

**Crop Reporter,** Vol. 14, No. 8. August, 1912. Pp. 57-64. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

**Designs for Dairy Buildings.** (Circular 131, Bureau of Animal Industry.)

**Lip-and-Leg Ulceration of Sheep.** (Circular 160, Bureau of Animal Industry.)

**Progress and Prospects of Tick Eradication.** (Circular 187, Bureau of Animal Industry.)

**The Carpet Beetle, or "Buffalo Moth."** (Circular 5, Bureau of Entomology.)

**The Ox Warble.** (Circular 25, Bureau of Entomology.)

**The Green-Striped Maple Worm.** (Circular 110, Bureau of Entomology.)

**Insects Which Kill Forest Trees.** (Circular 125, Bureau of Entomology.)

**Insect Injuries to the Wood of Dying and Dead Trees.** (Circular 127, Bureau of Entomology.)

**The Red Spider on Cotton.** (Circular 150, Bureau of Entomology.)

**The Cotton Worm or Cotton Caterpillar.** (Circular 153, Bureau of Entomology.)

**Syllabus of Illustrated Lecture on Farm Homes.** (Farmers' Institute Lecture 12, Office of Experiment Stations.)

**The Smuts of Sorghum.** (Circular 8, Bureau of Plant Industry.)

**Moisture Content and Shrinkage in Grain.** (Circular 32, Bureau of Plant Industry.)

#### FARMERS' BULLETINS.

##### NEW.

**Comb Honey.** By Geo. S. Demuth, Apicultural Assistant, Bureau of Entomology. Pp. 47, figs. 20. (Farmers' Bulletin 503.)

This bulletin contains information as to apparatus used for comb-honey production, manipulation of the bees, swarming, hiving, and caring for the crop of honey.

**Experiment Station Work, LXX.** Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, figs. 3. (Farmers' Bulletin 504.)

**CONTENTS:** Improvement of Sandy Soils—Utilization of Roughage—Alfalfa and Corn for Lambs—Feeding Alfalfa Hay to Swine—Cooperative Herd Testing—Cooperative Cattle Breeding—Losses Due to Low-Grade Cream—Disposing of Waste Dips—Care of Farm Machinery.

**Game Laws for 1912.** A summary of the provisions relating to seasons, shipments, sale, limits, and licenses. (Farmers' Bulletin 510.)

Includes United States and Canada. Supersedes F. B. 470.

#### SEPARATES.

##### NEW.

**Fibers Used for Binder Twine.** By Lyster H. Dewey, Botanist in Charge of Fiber-Plant Investigations, Bureau of Plant Industry. Pp. 193-200, pls. 3-5. (Separate 560, Yearbook 1911.)

The Weather Bureau and the Cranberry Industry. By Henry J. Cox, Professor of Meteorology, Weather Bureau. Pp. 211-222, pls. 6-9. (Separate 562, Yearbook 1911.)

Tree Planting by Farmers. By C. R. Tillotson, Forest Assistant, Forest Service. Pp. 257-268, pls. 12-14. (Separate 566, Yearbook 1911.)

Some Results of the Farmers' Cooperative Demonstration Work. By Bradford Knapp, Special Agent in Charge of the Farmers' Cooperative Demonstration Work, Bureau of Plant Industry. Pp. 285-296. (Separate 568, Yearbook 1911.)

Decomposition and Its Microscopical Detection in Some Food Products. By Burton J. Howard, Chief, Microchemical Laboratory, Bureau of Chemistry. Pp. 297-308, pls. 15-19. (Separate 569, Yearbook 1911.)

The Winds of the United States and Their Economic Uses. By P. C. Day, Climatologist and Chief of Division, Weather Bureau. Pp. 337-350, pls. 23-29, figs. 9-11. (Separate 573, Yearbook 1911.)

The Business Aspect of National Forest Timber Sales. By T. D. Woodbury, Assistant District Forester, District 5. Pp. 362-370, pls. 30-33. (Separate 575, Yearbook 1911.)

The Value of Snow Surveys as Related to Irrigation Projects. By Alfred H. Thiessen, Section Director, Weather Bureau. Pp. 391-396, pls. 37-42, fig. 12. (Separate 578, Yearbook 1911.)

Plant Introduction for the Plant Breeder. By David Fairchild, Agricultural Explorer in Charge of Foreign Seed and Plant Introduction. Pp. 411-422, pls. 43-48, fig. 13. (Separate 580, Yearbook 1911.)

The Value of Predaceous Beetles in Destroying Insect Pests. By A. F. Burgess and C. W. Collins, of the Bureau of Entomology. Pp. 453-466, pls. 57-62, figs. 15-20. (Separate 583, Yearbook 1911.)

The Handling and Marketing of Eggs. By Harry M. Lamon, Junior Animal Husbandman, Animal Husbandry Division, Bureau of Animal Industry. Pp. 467-478, pls. 63-64. (Separate 584, Yearbook 1911.)

A New Respiration Calorimeter for Use in the Study of Problems of Vegetable Physiology. By C. F. Langworthy and R. D. Milner, Nutrition Investigations, Office of Experiment Stations. Pp. 491-504, pls. 65-67. (Separate 586, Yearbook 1911.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 40, No. 6, June, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 815-976, maps 2, charts 7. (W. B. No. 486.) Price, 35 cents; \$4 a year.

National Weekly Weather Bulletin, 20, 21, 22, 23, for August, 1912. Price, 25 cents a year.

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JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



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## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., September 30, 1912.

## MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1912.]

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A convenient way to order publications is to return the list with the name and address written at the top, checking the publications desired.

The Superintendent of Documents is not connected with the Department of Agriculture, and all remittances for publications should be sent directly to **Superintendent of Documents, Government Printing Office, Washington, D. C.**, by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

### ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Iberia Parish, Louisiana. By Charles J. Mann and Lawrence A. Kolbe. Pp. 50, pl. 1, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Forrest County, Mississippi. By W. E. Tharp, of the United States Department of Agriculture, and W. M. Spann, of the Mississippi Geological Survey. Pp. 52, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Platte County, Missouri. By A. T. Sweet, of the United States Department of Agriculture, and J. E. Dunn and E. S. Vanatta, of the University of Missouri. Pp. 29, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Richmond County, North Carolina. By R. B. Hardison, W. Edward Hearn, and Risden T. Allen, of the United States Department of Agriculture, and L. L. Brinkley and E. W. Thornton, of the North Carolina Department of Agriculture. Pp. 48, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Georgetown County, South Carolina. By W. E. McLendon, G. A. Crabb, M. Earl Carr, and F. S. Welsh. Pp. 54, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Reconnoissance Soil Survey of Southwest Texas. By A. E. Kocher and party. Pp. 117, pls. 6, figs. 3, map. (From F. O. Soils, 1911.) Price, 25 cents.

### REPORT.

### NEW.

Annual Report of the Porto Rico Agricultural Experiment Station for 1911. Pp. 44, pls. 4. (Document 1453, Office of Experiment Stations.) Price, 10 cents.

## BULLETINS.

## NEW.

The Normal Composition of American Creamery Butter. By S. C. Thompson, R. H. Shaw, and R. P. Norton of the Dairy Division. Pp. 31, figs. 4. (Bulletin 149, Bureau of Animal Industry.) Price, 5 cents.

A Study of the Gases of Emmental Cheese. By William Mansfield Clark, Ph. D., Chemist, Dairy Division. Pp. 32, figs. 5. (Bulletin 151, Bureau of Animal Industry.) Price, 5 cents.

Studies on the Biology of the Texas-Fever Tick. (Supplementary Report.) By H. W. Graybill, D. V. M., Assistant Zoologist, Zoological Division, and W. M. Lewallen, Agent in Tick Eradication. Pp. 13. (Bulletin 152, Bureau of Animal Industry.) Price, 5 cents.

The Action of Anthelmintics on Parasites Located Outside of the Alimentary Canal. By Brayton Howard Ransom, Chief of the Zoological Division, and Maurice C. Hall, Assistant Zoologist, Zoological Division. Pp. 23. (Bulletin 153, Bureau of Animal Industry.) Price, 5 cents.

Methods of Classifying the Lactic-Acid Bacteria. By Lore A. Rogers, Bacteriologist, Dairy Division, and Brooke J. Davis, Assistant, Dairy Division. Pp. 30, figs. 6. (Bulletin 154, Bureau of Animal Industry.) Price, 5 cents.

Food of Our More Important Flycatchers. By F. E. L. Beal, Assistant, Biological Survey. Pp. 67, pls. 5. (Bulletin 44, Bureau of Biological Survey.) Price, 20 cents.

Determination of Lithium. By W. W. Skinner, Chief, Water Laboratory, and W. D. Collins, Assistant Chemist. Pp. 38. (Bulletin 153, Bureau of Chemistry.) Price, 5 cents.

Sewage—Polluted Oysters as a Cause of Typhoid and Other Gastro-Intestinal Disturbances. By George W. Stiles, Jr., Chief Bacteriological Laboratory. Pp. 44, pls. 4, figs. 7. (Bulletin 156, Bureau of Chemistry.) Price, 10 cents.

A Bacteriological Study of Shell, Frozen, and Desiccated Eggs; made under Laboratory Conditions at Washington, D. C. By George Whitfield Stiles, Jr., Bacteriological Chemist, and Carleton Bates, Assistant Bacteriologist. Pp. 36, pls. 3, figs. 2. (Bulletin 158, Bureau of Chemistry.) Price, 10 cents.

Natural Control of White Flies in Florida. By A. W. Morrill, Ph. D., and E. A. Back, Ph. D. Pp. 78, pls. 9, fig. 1. (Bulletin 102, Bureau of Entomology.) Price, 20 cents.

Leafhoppers Affecting Cereals, Grasses, and Forage Plants. By Herbert Osborn, Professor of Zoology and Entomology, Ohio State University. Pp. 123, pls. 4, figs. 29. (Bulletin 108, Bureau of Entomology.) Price, 20 cents.

The Sugar-beet Webworm. By H. O. Marsh, Entomological Assistant. Pp. 14, figs. 15. (Bulletin 109, Part 6, Bureau of Entomology.) Price, 5 cents.

The Spring Grain-Aphis or "Green Bug." By F. M. Webster, In Charge of Cereal and Forage Insect Investigations, and W. J. Phillips, Entomological Assistant. Pp. 153, pls. 9, figs. 48, diagrams 5. (Bulletin 110, Bureau of Entomology.) Price, 25 cents.

The Life History and Bionomics of Some North American Ticks. By W. A. Hooker, F. C. Bishopp, and H. P. Wood. Pp. 239, pls. 15, figs. 17. (Bulletin 106, Bureau of Entomology.) Price, 30 cents.

Proceedings of the Sixteenth Annual Meeting of the American Association of Farmers' Institute Workers, held at Columbus, Ohio, Nov. 13, 14, 1911. Edited by W. H. Beal, for the Office of Experiment Stations, and John Hamilton, for the Association. Pp. 77. (Bulletin 251, Office of Experiment Stations.) Price, 10 cents.

The Effect of Manganese on Pineapple Plants and the Ripening of the Pineapple Fruit. By E. V. Wilcox, Special Agent in Charge, and W. P. Kelley, Chemist. Pp. 20, pls. 2. (Bulletin 28, Hawaii Agricultural Experiment Station.) Price, 20 cents.

Experiment Station Record, Vol. XXVI, No. 9, abstract number. E. W. Allen, Ph. D., Editor. Pp. 801-900. Price, 15 cents.

*Same*, Vol. XXVII, No. 1, July, 1912. Pp. 1-100. Price, 15 cents.

*Same*, Vol. XXVII, No. 2, August, 1912. Pp. 101-200. Price, 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

The Specific Heat of Wood. By Frederick Dunlap, Forest Assistant, Forest Service. Pp. 28, pl. 1, figs. 5. (Bulletin 110, Forest Service.) Price, 5 cents.

**Lightning in Relation to Forest Fires.** By Fred. G. Plummer, Geographer. Pp. 39, pls. 2, figs. 16. (Bulletin 111, Forest Service.) Price, 10 cents.

**Seeds and Plants Imported During the Period from July 1 to Sept. 30, 1912.** Inventory No. 28; Nos. 31371 to 31938. Pp. 71. (Bulletin 248, Bureau of Plant Industry.) Price, 10 cents.

**The Branching Habits of Egyptian Cotton.** By Argyle McLachlan, Agent, Crop Acclimatization and Adaption Investigations. Pp. 28, pls. 3, fig. 1. (Bulletin 249, Bureau of Plant Industry.) Price, 10 cents.

**Studies in Soil Catalysis.** By M. X. Sullivan and F. R. Reid, Scientists in Soil Fertility Investigations. Pp. 31, pls. 2. (Bulletin 86, Bureau of Soils.) Price, 5 cents.

#### REPRINT.

**Official and Provisional Methods of Analysis,** Association of Official Agricultural Chemists. (Bulletin 107, Bureau of Chemistry.) Price, 20 cents.

#### CIRCULARS.

##### NEW.

**Rules and Regulations for Carrying Out the Plant Quarantine Act.** Pp. 12. (Circular 41, Office of the Secretary.)

**Amendment 3 to Rule 1, Revision 9.—To Prevent the Spread of Splenetic Fever in Cattle.** Amendment regarding the Return of Cattle of the Nonquarantined Area that are Exhibited at the Georgia-Carolina Fair at Augusta, Ga., Nov. 4 to 9, 1912. Pp. 2. (Amendment 3 to B. A. I. Order 187.)

**Amendment 4 to Rule 1, Revision 9.—To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle.** Amendment Releasing from Quarantine Portions of North Carolina and Oklahoma. Pp. 3. (Amendment 4 to B. A. I. Order 187.)

**A Method for the Determination of Starch in Meat Food Products.** By T. M. Price, Ph. D., Senior Laboratory Inspector, Biochemic Division. Pp. 6. (Circular 203, Bureau of Animal Industry.)

**List of Station Publications Received by the Office of Experiment Stations During August, 1912.** Pp. 5. (Document 1477, Office of Experiment Stations.)

**The Absorption of Creosote by the Cell Walls of Wood.** By Clyde H. Teesdale, Assistant Engineer in Forest Products. Pp. 7, fig. 1. (Circular 200, Forest Service.)

**The Profession of Forestry.** By Henry S. Graves, Forester. Pp. 17. (Circular 207, Forest Service.)

**Western Hemlock.** Pp. 6. (Silvical Leaflet 45, Forest Service.)

**Broadleaf Maple.** Pp. 4. (Silvical Leaflet 51, Forest Service.)

**Oregon Oak.** Pp. 4. (Silvical Leaflet 52, Forest Service.)

**Red Alder.** Pp. 4. (Silvical Leaflet 53, Forest Service.)

**The Germination of Packeted Vegetable Seeds.** By Edgar Brown, Botanist in Charge of Seed Laboratory, and W. L. Goss, Scientific Assistant, Seed Laboratory. (Circular 101, Bureau of Plant Industry.)

**Monthly List of Publications, August, 1912.** Pp. 4. (Document 771, Division of Publications.)

**The Twenty-eight Hour Law.** Decision of the District Court for the district of New Jersey in a case involving an alleged violation of the 28-hour law, act of June 29, 1906. Pp. 3. (Circular 65, Office of the Solicitor.)

**Crop Reporter, Vol. 14, No. 9, September, 1912.** Pp. 65-72. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

**Directions for the Use of Blackleg Vaccine.** (Circular 23 (third rev.), Bureau of Animal Industry.)

**Epizootic Cerebro-Spinal Meningitis of Horses.** (Circular 122, Bureau of Animal Industry.)

**The Control of Bovine Tuberculosis.** (Circular 175, Bureau of Animal Industry.)

**The Pasteurization of Milk.** (Circular 184, Bureau of Animal Industry.)

**The Vaccination of Cattle against Tuberculosis.** (Circular 190, Bureau of Animal Industry.)

The Melon Aphid. (Circular 80, Bureau of Entomology.)  
 The Grasshopper Problem and Alfalfa Culture. (Circular 84, Bureau of Entomology.)  
 The Colorado Potato Beetle. (Circular 87, Bureau of Entomology.)  
 How to Control the Pear Thrips. (Circular 131, Bureau of Entomology.)  
 A Secondary Course in Agronomy. (Circular 77 (rev.), Office of Experiment Stations.)  
 Progress Reports of Experiments with Dust Preventives. (Circular 89, Office of Public Roads.)  
 Special Road Problems in the Southern States. (Circular 95, Office of Public Roads.)

FARMERS' BULLETINS.

NEW.

Benefits of Improved Roads. Prepared by the Office of Public Roads. Pp. 20, figs. 8. (Farmers' Bulletin 505.)

This bulletin presents the chief advantages resulting from better roads, shows decrease in cost of hauling and increase in value of farm lands, improvement of rural schools and rural free-delivery service.

Food of Some Well-Known Birds of Forest, Farm, and Garden. By F. E. L. Beal and W. L. McAtee, Biological Survey. Pp. 35, figs. 16. (Farmers' Bulletin 506.)

This bulletin discusses the food habits of 20 different species of birds in relation to economic interests.

SEPARATES.

NEW.

Live Stock and Miscellaneous Agricultural Statistics, 1911. Pp. 615-699. (Separate 588, Yearbook 1911.)

REPRINT.

Progress and Present Status of the Good Roads Movement in the United States. (Separate 535, Yearbook 1910.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

National Weekly Weather Bulletin, 24, 25, 26, 27, 28, for September, 1912. Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



P96M

This circular will be sent regularly to all who apply for it.

No. 774.

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., October 31, 1912.

## MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1912.]

NOTE.—Copies of the publications listed herein, **except publications of the Weather Bureau**, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the law of January 12, 1895, is empowered to have reprints made and sell them at the prices herein given.

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### ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Jackson County, Alabama. By C. S. Waldrop of the United States Department of Agriculture, and Eric Bell, of the Alabama Department of Agriculture and Industries. Pp. 32, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Tuscaloosa County, Alabama. By R. A. Winston, W. J. Latimer, and L. Cantrell, of the United States Department of Agriculture, and W. E. Wilkinson and A. C. McGehee, of the Alabama Department of Agriculture and Industries. Pp. 74, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Windham County, Connecticut. By W. E. McLendon. Pp. 29, fig. 1, map. (From F. O. Soils 1911.) Price, 15 cents.

Soil Survey of Lowndes County, Mississippi. By Howard C. Smith, of the United States Department of Agriculture, and A. L. Goodman, of the Mississippi Geological Survey. Pp. 50, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Laclede County, Missouri. By David D. Long, of the United States Department of Agriculture, and E. C. Hall and H. Krusekopf, of the University of Missouri. Pp. 45, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

### REPORT.

#### NEW.

Annual Report of The Guam Agricultural Experiment Station for 1911. Pp. 35, pl. 5. (Document 1471, Office of Experiment Stations.) Price, 10 cents.

### BULLETINS.

#### NEW.

The Manufacture of Butter for Storage. By L. A. Rogers, S. C. Thompson, and J. R. Keithley, of the Dairy Division. Pp. 27, figs. 5. (Bulletin 148, Bureau of Animal Industry.) Price, 5 cents.

The Bacteriology of Cheddar Cheese. By E. G. Hastings, Bacteriologist, Wisconsin Agricultural Experiment Station, Alice C. Evans, Bacteriologist, Dairy Division, Bureau of Animal Industry, and E. B. Hart, Chemist, Wisconsin Agricultural Experiment Station. Pp. 52, pl. 1, figs. 4. (Bulletin 150, Bureau of Animal Industry.) Price, 10 cents.

The Roundworms of Domestic Swine, with Special Reference to Two Species Parasitic in the Stomach. By Winthrop D. Foster, Junior Zoologist, Zoological Division. Pp. 47, pl. 1, figs. 28. (Bulletin 158, Bureau of Animal Industry.) Price, 10 cents.

Feeding Beef Cattle in Alabama. I. Winter Fattening on Cottonseed Meal, Cottonseed Hulls, Corn Silage, and Johnson-Grass Hay. II. Wintering Steers followed by Summer Fattening on Pasture. III. The Value of Shelter for Fattening Cattle in Alabama. IV. Early Compared with Late Fattening of Steers on Pasture. By Dan T. Gray, Professor of Animal Industry, Alabama Polytechnic Institute, and W. F. Ward, Junior Animal Husbandman, Animal Husbandry Division. Pp. 56. (Bulletin 159, Bureau of Animal Industry.) Price, 10 cents.

Proceedings of the Twenty-eighth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 20-22, 1911. Edited by Harvey W. Wiley, Secretary of the Association, with the collaboration of A. L. Pierce, Editor, Bureau of Chemistry. Pp. 268, figs. 4. (Bulletin 152, Bureau of Chemistry.) Price, 35 cents.

Papers on Coccidæ or Scale Insects. Catalogue of Recently Described Coccidæ—IV. By E. R. Sasser, Scientific Assistant. Pp. 83-97. (Bulletin 16, Part VI, Technical Series, Bureau of Entomology.) Price, 5 cents.

The Alfalfa Looper. By James A. Hyslop, Agent and Expert. Pp. 109-118, pl. 1, figs. 7. (Bulletin 95, Part VII, Bureau of Entomology.) Price, 5 cents.

The Cowpea Weevil. By F. H. Chittenden, Sc. D., in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 83-94, pl. 1, fig. 1. (Bulletin 96, Part VI, Bureau of Entomology.) Price, 5 cents.

The Pear Thrips. By H. M. Russell, Entomological Assistant. Pp. 49, figs. 11. (Bulletin 118, Bureau of Entomology.) Price, 10 cents.

Contents and Index to Bulletin 82, Bureau of Entomology, Some Insects Injurious to Truck Crops. Pp. i-x, 95-108. Price, 5 cents.

Contents and Index to Bulletin 90, Bureau of Entomology. Hydrocyanic-acid Gas Fumigation in California. Pp. I-X, 107-113. Price, 5 cents.

Experiment Station Record, Vol. XXVII, No. 3, Abstract Number. E. W. Allen, Ph. D., Editor. Pp. 201-300. Price, 15 cents.

*Same*, Vol. XXVII, No. 4. September, 1912. Pp. 301-400. Price, 15 cents.

*Same*, Vol. XXVI, Index. Pp. 901-1009. Price, 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Tests of Structural Timbers. By McGarvey Cline, Director, Forest Products Laboratory, and A. L. Heim, Engineer in Forest Products. Pp. 123, pls. 7, figs. 29. (Bulletin 108, Forest Service.) Price, 20 cents.

Forest-Killed Douglas Fir: A Study of Its Rate of Deterioration, Usability, and Strength. By Joseph Burke Knapp, Assistant District Forester, District 6. Pp. 18, figs. 5. (Bulletin 112, Forest Service.) Price, 10 cents.

Forest Conditions in Louisiana. By J. H. Foster, Assistant Chief, State Cooperation. Pp. 39, figs. 3, pls. 3. (Bulletin 114, Forest Service.) Price, 10 cents.

Possibilities of Western Pines as a Source of Naval Stores. By H. S. Betts, Assistant District Forester. Pp. 23, figs. 3, pls. 4. (Bulletin 116, Forest Service.) Price, 10 cents.

Forest Fires: Their Causes, Extent and Effects, With a Summary of Recorded Destruction and Loss. By Fred G. Plummer, Geographer. Pp. 39, figs. 6, pl. 1. (Bulletin 117, Forest Service.) Price, 10 cents.

Catalogue of Publications relating to Forestry in the Library of the United States Department of Agriculture. Prepared in the Library of the department with the cooperation of the Forest Service. Pp. 302. (Bulletin 76, Library.) Price, 20 cents.

Monthly Bulletin of the Library. Vol. 3, No. 7, July, 1912. Pp. 208-229. (Library.) Price, 5 cents.

*Same*, Vol. 3. No. 8, August, 1912. Pp. 232-264. (Library.) Price, 5 cents.

The Weed Factor in the Cultivation of Corn. By J. S. Cates, Assistant Agriculturist, and H. R. Cox, Agriculturist, Office of Farm Management. Pp. 35, figs. 10. (Bulletin 257, Bureau of Plant Industry.) Price, 10 cents.

What Is Farm Management? By W. J. Spillman, Agriculturist in Charge of the Office of Farm Management. Pp. 84, fig. 1. (Bulletin 259, Bureau of Plant Industry.) Price, 10 cents.

Exports of Farm and Forest Products, 1909-1911, by Countries to Which Consigned. Pp. 100. (Bulletin 96, Bureau of Statistics.) Price, 15 cents.

Railroads and Farming. Some Influences Affecting the Progress of Agriculture. By Frank Andrews, Assistant Chief of the Division of Production and Distribution. Pp. 47, figs. 2. (Bulletin 100, Bureau of Statistics.) Price, 5 cents.

#### REPRINT.

Root-Knot and Its Control. (Bulletin 217, Bureau of Plant Industry.) Price, 15 cents.

#### CIRCULARS.

#### NEW.

Rules and Regulations for the Enforcement of the Food and Drugs Act. (Circular 21, Sixth Revision, Office of the Secretary.)

**Amendment 5 to Rule 1, Revision 9.—To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle.** Amendment Releasing from Quarantine Portions of the State of Arkansas. Pp. 2. (Amendment 5 to B. A. I. Order 187.)

**Milk and Cream Contests.** How to Conduct Them, and How to Prepare Samples for Competition. By Ernest Kelly, In Charge of Milk Investigations, Dairy Division. Pp. 28. (Circular 205, Bureau of Animal Industry.)

**Hints to Poultry Raisers.** By Harry M. Lamon, Senior Animal Husbandman in Poultry Investigations, Animal Husbandry Division. Pp. 5, fig. 1. (Circular 206, Bureau of Animal Industry.)

**Directions for Constructing Vats and Dipping Cattle to Destroy Ticks.** By H. W. Graybill, D. V. M., Assistant Zoologist, Zoological Division, and W. P. Ellenberger, D. V. S., Veterinary Inspector, Inspection Division. Pp. 20, figs. 2. (Circular 207, Bureau of Animal Industry.)

**National Reservations for the Protection of Wild Life.** By T. S. Palmer, Assistant Chief, Biological Survey. Pp. 32, fig. 5. (Circular 87, Bureau of Biological Survey.)

**The Determination of Arsenic** By Claude R. Smith, Assistant Chemist, New York Food and Drug Inspection Laboratory. Pp. 12, fig. 2. (Circular 102, Bureau of Chemistry.)

**Studies on Chicken Fat. III. Influence of Temperature on the Lipolysis of Esters. IV. The Hydrolysis of Chicken Fat by Means of Lipase.** By M. E. Pennington and J. S. Heyburn, Food Research Laboratory. **V. The Occurrence of Catalase, Oxidases, and Reductases in the Fat of the Common Fowl (*Gallus domesticus*).** By Joseph S. Heyburn, Food Research Laboratory. Pp. 12. (Circular 103, Bureau of Chemistry.)

**A Study of the Enzymes of the Egg of the Common Fowl.** By M. E. Pennington and H. C. Robertson, jr., Food Research Laboratory. Pp. 8. (Circular 104, Bureau of Chemistry.)

**The Determination of Malic and Tartaric Acids in the same Solution.** By P. B. Dunbar, Assistant Chemist, Division of Foods. Pp. 8. (Circular 105, Bureau of Chemistry.)

**The Determination of Tartaric Acid.** By P. B. Dunbar, Assistant Chemist, Division of Foods. Pp. 9, fig. 1. (Circular 106, Bureau of Chemistry.)

**Insects Injurious to Mushrooms.** By C. H. Popeno, Entomological Assistant. Pp. 10, figs. 7. (Circular 155, Bureau of Entomology.)

**The Mediterranean Fruit Fly.** By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 25, fig. 1. (Circular 160, Bureau of Entomology.)

**The Manipulation of the Wax Scales of the Honey Bee.** By D. B. Casteel, Ph. D., Collaborator, Adjunct Professor of Zoology, University of Texas. Pp. 13, figs. 7. (Circular 161, Bureau of Entomology.)

**The American System of Agricultural Education.** By A. C. True and Dick J. Crosby, of the Office of Experiment Stations. Pp. 31, pl. 9. (Circular 106, Revised, Office of Experiment Stations.) Price, 10 cents.

**List of Station Publications received by the Office of Experiment Stations during September, 1912.** Pp. 4. (Document 1480, Office of Experiment Stations.)

**Condition of Experimental Chestnut Poles in the Warren-Buffalo and Poughkeepsie-Newton Square Lines after Five and Eight Years' Service.** By Carlile P. Winslow, In Charge, Cooperative Projects, Forest Products Laboratory. Pp. 13, figs. 2. (Circular 198, Forest Service.)

**Extracting and Cleaning Forest Tree Seed.** Compiled by the Branch of Silviculture. Pp. 23. (Circular 208, Forest Service.)

**Peanut Butter.** By W. R. Beattie, Assistant Horticulturist. Pp. 14, figs. 7. (Circular 98, Bureau of Plant Industry.)

**Distribution of Seeds and Plants by the Department of Agriculture.** By B. T. Galloway, Chief, Bureau of Plant Industry. Pp. 23, figs. 12. (Circular 100, Bureau of Plant Industry.)

**The Production of Hairy Vetch Seed.** By C. V. Piper, Agrostologist in Charge of Forage-Crop Investigations, and Edgar Brown, Botanist in Charge of Seed Laboratory. Pp. 8. (Circular 102, Bureau of Plant Industry.)

**Organization of Department of Agriculture, 1912.** Pp. 72. (Circular 1, Revised, Division of Publications.)

**Monthly List of Publications, September, 1912.** Pp. 4. (Document 773, Division of Publications.)

**Soil Survey of Payne Prairie, Gainesville Area, Florida.** By Charles N. Mooney. Pp. 5, fig. 1. (Circular 72, Bureau of Soils.)

**Rice Crop of the United States, 1712-1911.** Compiled under the direction of George K. Holmes, Chief of the Division of Production and Distribution. Pp. 11. (Circular 34, Bureau of Statistics.)

**Foreign Crops, August-September, 1912.** By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 24. (Circular 40, Bureau of Statistics.)

**Crop Reporter, Vol. 14, No. 10, October, 1912.** Pp. 73-80. (Bureau of Statistics.)

**The Crop Reporter** is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

**Hog Raising in the South.** (Circular 30, Office of Secretary.)

**The Dissemination of Disease by Dairy Products, and Methods for Prevention.** (Circular 153, Bureau of Animal Industry.)

Cow-Testing Associations. (Circular 179, Bureau of Animal Industry.)

State and Municipal Meat Inspection and Municipal Slaughterhouses. (Circular 185, Bureau of Animal Industry.)

The True Clothes Moths. (Circular 36, Bureau of Entomology.)

Cockroaches. (Circular 51, Bureau of Entomology.)

Three Much-Misrepresented Sorghums. (Circular 50, Bureau of Plant Industry.)

#### FARMERS' BULLETINS.

##### NEW.

The Smuts of Wheat, Oats, Barley, and Corn. By Edward C. Johnson, Pathologist in Charge of Cereal-Disease Work, Office of Grain Investigations, Bureau of Plant Industry. Pp. 32, figs. 11. (Farmers' Bulletin 507.)

This bulletin shows the economic importance of smuts, gives popular description of them and their life habits, and points out the best methods for their prevention.

Market Hay. By Harry B. McClure, Assistant Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 38, figs. 3. (Farmers' Bulletin 508.)

The purpose of this bulletin is to supply information to hay producers concerning the conditions existing in the various hay markets of the country.

Forage Crops for the Cotton Region. By S. M. Tracy, Special Agent, Office of Forage-Crops Investigations, Bureau of Plant Industry. Pp. 47. (Farmers' Bulletin 509.)

This bulletin treats of the most important forage crops that are adapted to the various sections of the cotton region.

Farm Bookkeeping. By Edward H. Thomson, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 37, figs. 4. (Farmers' Bulletin 511.)

This bulletin gives a simple method of keeping farm accounts, cash accounts, labor records, live-stock records, and feeding records.

The Boll Weevil Problem, with Special Reference to Means of Reducing Damage. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations, Bureau of Entomology. Pp. 46. Fig. 9. (Farmers' Bulletin 512.)

This Bulletin supersedes Farmers' Bulletin 344.

Experiment Station Work, LXXI. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24. Fig. 12. (Farmers' Bulletin 514.)

CONTENTS: Improved Varieties of Timothy—Hardy Alfalfa—Harvesting Soy Beans—Soy Beans for Silage—Fat in Milk of Cows at time of Calving—Clean Milk.

#### SEPARATES.

#### REPRINT.

Progress in Methods of Producing Higher Yielding Strains of Corn. (Separate 515, Yearbook 1909.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Bulletin of the Mount Weather Observatory, vol. 5, pt. 1. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 82. Charts 6, figs. 13. (W. B. No. 489.) Price, 25 cents.

Monthly Weather Review, vol. 40, No. 7, July, 1912. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 977-1142, maps 2, charts 7. (W. B. No. 488.) Price, 35 cents. \$4 a year.

National Weekly Weather Bulletin, 29, 30, 31, 32, for October, 1912. Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*

*p96M*  
No. 776.

This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1912.]

**NOTE.**—Copies of any of the publications listed herein, **except publications of the Weather Bureau**, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the law of January 12, 1895, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents unless otherwise noted is 5 cents per copy.

The Superintendent of Documents is not connected with the Department of Agriculture, **and all remittances for publications should be sent directly to Superintendent of Documents, Government Printing Office, Washington, D. C.**, by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

#### REPORTS.

##### NEW.

Annual Report of Alaska Experiment Stations for 1911. Pp. 84, pls. 14. (Document 1467, Office of Experiment Stations.) Price, 20 cents.  
Report of the Appointment Clerk, 1912. Pp. 20.  
Report of the Chief of the Bureau of Biological Survey, 1912. Pp. 24.  
Report of the Acting Chemist, 1912. Pp. 54.  
Report of the Editor, 1912. Pp. 23.  
Report of the Director of the Office of Experiment Stations, 1912. Pp. 31.  
Report of the Forester, 1912. Pp. 95.  
Report of the Librarian, 1912. Pp. 22.  
Report of the Chief of the Bureau of Plant Industry, 1912. Pp. 82.  
Report of the Solicitor, 1912. Pp. 192.  
Report of the Chief of the Bureau of Soils, 1912. Pp. 14.  
Report of the Chief of the Bureau of Statistics, 1912. Pp. 20.  
Report of the Chief of the Weather Bureau, 1912. Pp. 43.

## BULLETINS.

## NEW.

**The One-Spray Method in the Control of the Codling Moth and the Plum Curculio.**  
 By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and  
 E. W. Scott, Entomological Assistant. Pp. 87-112, figs. 4, pl. 1. (Bulletin 115,  
 Part 2, Bureau of Entomology.) Price, 5 cents.  
**Experiment Station Record.** Vol. XXVII, No. 5, October, 1912. E. W. Allen,  
 Ph. D., Editor. Pp. 401-500. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

**Methods and Apparatus for the Prevention and Control of Forest Fires, as Exemplified on the Arkansas National Forest.** By Daniel W. Adams, Forest Examiner. Pp. 27, figs. 8, pl. 6. (Bullelton 113, Forest Service.) Price, 10 cents.

**Prolonging the Life of Crossties.** By Howard F. Weiss, Assistant Director, Forest Products Laboratory. Pp. 51, figs. 15, pl. 6. (Bulletin 118, Forest Service.) Price, 15 cents.

**Monthly Bulletin of the Library,** Vol. 3, No. 9, September, 1912. Pp. 266-299. (Library.) Price, 5 cents.

**The Export and Manufacturing Tobaccos of the United States With Brief Reference to the Cigar Types.** By E. H. Mathewson, Crop Technologist, Office of Tobacco Investigations. Pp. 100, figs. 37, maps 2. (Bulletin 244, Bureau of Plant Industry.) Price, 20 cents.

**The American Beet-Sugar Industry in 1910 and 1911.** Pp. 73, pls. 8, fig. 1. (Bulletin 260, Bureau of Plant Industry.) Price, 25 cents.

**A Study of the Soils of the United States.** By George Nelson Coffey, Scientist in Soil Survey. Pp. 114, fig. 1, map 1. (Bulletin 85, Bureau of Soils.) Price, 25 cents.

**The Chemistry of Steam-Heated Soils.** By Oswald Schreiner, Scientist in charge of Fertility Investigations, and Elbert C. Lathrop, Scientist in Fertility Investigations. Pp. 37. (Bulletin 89, Bureau of Soils.) Price, 5 cents.

**Supply of Farm Labor.** By George K. Holmes, Chief of Division of Production and Distribution. Pp. 81. (Bulletin 94, Bureau of Statistics.) Price, 10 cents.

**Imports of Farm and Forest Products, 1909-1911, by Countries from which Consigned.** Pp. 83. (Bulletin 95, Bureau of Statistics.) Price, 10 cents.

**Wages of Farm Labor.** Nineteenth Investigation, in 1909, Continuing a Series that Began in 1866. By George K. Holmes, Chief of Division of Production and Distribution. Pp. 72, fig. 1. (Bulletin 99, Bureau of Statistics.) Price, 10 cents.

## REPRINTS.

**Crossbreeding Corn.** (Bulletin 218, Bureau of Plant Industry.) Price, 10 cents.  
**The Corrosion of Iron.** (Bulletin 30, Office of Public Roads.) Price, 10 cents.

## CIRCULARS.

## NEW.

**Regulations Governing the Sanitation of Renovated or Process Butter Factories.** Effective on and after November 15, 1912. Pp. 4. (B. A. I. Order 193.)

**List of Accredited Veterinary Colleges.** (Revision of Circular 150.) Pp. 2. (Circular 150-B, Bureau of Animal Industry.)

**Hydrocyanic-Acid Gas Against Household Insects.** By L. O. Howard and C. H. Popeno. Pp. 8. (Circular 163, Bureau of Entomology.)

**Mechanical Properties of Redwood.** By A. L. Heim, Engineer in Forest Products. Pp. 32, figs. 8. (Circular 193, Forest Service.)

**Yield and Returns of Blue Gum (Eucalyptus) in California.** By T. D. Woodbury, Assistant District Forester, District 5. Pp. 8. (Circular 210, Forest Service.) **Monthly List of Publications, October, 1912.** Pp. 4. (Document 774, Division of Publications.)

**Foreign Crops, October, 1912.** Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 24. (Circular 41, Bureau of Statistics.)

**Crop Reporter, Vol. 14, No. 11, November, 1912.** Pp. 81-88. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

**Some Results of Cattle-Tick Eradication.** (Circular 196, Bureau of Animal Industry.)

**Mites and Lice on Poultry.** (Circular 92, Bureau of Entomology.)

**The Chinch Bug.** (Circular 113, Bureau of Entomology.)

#### FARMERS' BULLETINS.

##### NEW.

**Vetches.** By C. V. Piper, Agrostologist in Charge of Forage-Crop Investigations, and Roland McKee, Scientific Assistant, Office of Forage-Crop Investigations, Bureau of Plant Industry. With a Chapter on Vetch Seed and Its Adulterants, by F. H. Hillman, Assistant Botanist, Seed Laboratory, Bureau of Plant Industry. Pp. 28, figs. 10. (Farmers' Bulletin 515.)

**Experiment Station Work, LXXII.** Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, fig. 1. (Farmers' Bulletin 517.)

**CONTENTS:** Promoting Germination of Seed—Cotton Anthracnose—Asphaltum Treatment for Peach-Tree Borer—Raising and Finishing Beef Calves—Open-Shed Feeding of Steers—Four Systems of Dairy Farming—Market Eggs—Uses of the Sweet Potato—Vinegar Making from Waste Grapes—Lighting Farm Houses.

#### PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

**Monthly Weather Review, Vol. 40, No. 8, August, 1912.** Prepared under direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1143-1292, maps 2, charts 7. (W. B. No. 490.) Price 35 cents; \$4 a year.

**Same, Vol. 40, No. 9, September, 1912.** Pp. 1293-1455, maps 2, charts 7. (W. B. No. 491.)

**National Weekly Weather Bulletin, 4, 11, 18, 25, for November, 1912.** Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Jos. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*





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No. 778.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., December 31, 1912.

### MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1912.]

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#### ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Plymouth County, Massachusetts. By W. E. McLendon and Grove B. Jones. Pp. 41, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of the Morgantown Area, West Virginia. By Charles N. Mooney and W. J. Latimer. Pp. 42, pl. 1, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

#### REPORTS.

##### NEW.

Report of the Secretary of Agriculture, 1912. Pp. 279.

Report of the Chief of the Division of Accounts and Disbursements, 1912. Pp. 82.

Report of the Chief of the Bureau of Animal Industry, 1912. Pp. 92.

Report of the Entomologist, 1912. Pp. 46.

Report of the Director of the Office of Public Roads, 1912. Pp. 43.

Report of the Insecticide and Fungicide Board, 1912. Pp. 10.

Systems of Marketing Farm Products and Demand for Such Products at Trade Centers.

Prepared under the immediate supervision of George K. Holmes, Statistical Scientist, Bureau of Statistics. Pp. 391. (Report 98, Office of the Secretary.) Price, 25 cents.

(This publication is obtainable only from the Superintendent of Documents.)

## BULLETINS.

## NEW.

A Study of Nuts with Special Reference to Microscopic Identification. By W. J. Young, Assistant Chemist, Microchemical Laboratory. Pp. 37, pls. 5, figs. 10. (Bulletin 160, Bureau of Chemistry.) Price, 10 cents.

The Genus *Fiorinia* in the United States. By E. R. Sasser, Scientific Assistant. Pp. 75-82, pls. 4. (Bulletin 16, part 5, Technical Series, Bureau of Entomology.) Price, 10 cents.

Contents and Index to Bulletin 12, Technical Series, Bureau of Entomology. Pp. I-IX, 175-200. Price, 5 cents.

The Red-Banded Thrips. By H. M. Russell, Entomological Assistant. Pp. 17-29, pls. 2. (Bulletin 99, part 2, Bureau of Entomology.) Price, 5 cents.

The Principal Cactus Insects of the United States. By W. D. Hunter, In Charge of Southern Field Crop Insect Investigations, F. C. Pratt, Late Assistant Entomologist, and J. D. Mitchell, Agent and Expert. Pp. 71, pls. 7, figs. 8. (Bulletin 113, Bureau of Entomology.) Price, 15 cents.

The Grape-Berry Moth. By Fred Johnson and A. G. Hammar, Entomological Assistants. Pp. 15-71, pls. 5, figs. 19. (Bulletin 116, part 2, Bureau of Entomology.) Price, 15 cents.

The Behavior of the Honey Bee in Pollen Collecting. By D. B. Casteel, Ph. D., Collaborator and Adjunct Professor of Zoology, University of Texas. Pp. 36, figs. 9. (Bulletin 121, Bureau of Entomology.) Price, 5 cents.

Contents and Index to Bulletin 97, Bureau of Entomology, Papers on Deciduous Fruit Insects and Insecticides. Pp. I-XI, 125-132. Price, 5 cents.

Some Types of Children's Garden Work. By Miss Susan B. Sipe, Collaborator, Bureau of Plant Industry and Office of Experiment Stations. Pp. 56, pls. 11, figs. 2. (Bulletin 252, Office of Experiment Stations.) Price, 15 cents.

Experiment Station Record, Vol. XXVII, No. 6, Abstract Number. E. W. Allen, Ph. D., Editor. Pp. 501-600. Price, 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Principles of Drying Lumber at Atmospheric Pressure, and Humidity Diagram. By Harry D. Tiemann, In Charge Timber Physics. Pp. 19, figs. 2. (Bulletin 104, Forest Service.) Price, 5 cents.

Monthly Bulletin of the Library, October, 1912. Vol. 3, No. 10. Pp. 302-331. (Library.) Price, 5 cents.

Seeds and Plants Imported During the Period from Oct. 1 to Dec. 31, 1911. Inventory No. 29; Nos. 31939 to 32368. Pp. 65. (Bulletin 261, Bureau of Plant Industry.) Price, 10 cents.

Ornamental Cacti: Their Culture and Decorative Value. By Charles Henry Thompson, Assistant Botanist, Missouri Botanical Garden. Pp. 24, pls. 18. (Bulletin 262, Bureau of Plant Industry.) Price, 15 cents.

Some Factors Influencing the Efficiency of Bordeaux Mixture. By Lon A. Hawkins, Scientific Assistant, Fruit Disease Investigations. Pp. 29, figs. 4. (Bulletin 265, Bureau of Plant Industry.) Price, 5 cents.

Some Effects of Refrigeration on Sulphured and Unsulphured Hops. By W. W. Stockberger, Physiologist, and Frank Rabak, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 21. (Bulletin 271, Bureau of Plant Industry.) Price, 5 cents.

Nitrogenous Soil Constituents and Their Bearing on Soil Fertility. By Oswald Schreiner, Scientist in Charge, Soil Fertility Investigations, and J. J. Skinner, Scientist, Soil Fertility Investigations. Pp. 84, pls. 11, fig. 1. (Bulletin 87, Bureau of Soils.) Price, 15 cents.

Occurrence and Nature of Carbonized Material in Soils. By Oswald Schreiner, Scientist in Charge of Fertility Investigations, and B. E. Brown, Scientist in Fertility Investigations. Pp. 28, pls. 7. (Bulletin 90, Bureau of Soils.) Price, 10 cents.

Coffee. Production, Trade, and Consumption, by Countries. By Harry C. Graham, Division of Research and Reference. Pp. 134, figs. 4. (Bulletin 79, Bureau of Statistics.) Price, 15 cents.

REPRINTS.

The Diagnosis of Glanders by Complement Fixation. (Bulletin 136, Bureau of Animal Industry.) Price, 15 cents.

Dry Farming In Relation To Rainfall and Evaporation. (Bulletin 188, Bureau of Plant Industry.) Price, 15 cents.

Descriptive Catalogue of the Road Model Exhibit. (Bulletin 36, Office of Public Roads.) Price, 15 cents.

Oil-Mixed Portland Cement Concrete. (Bulletin 46, Office of Public Roads.) Price, 10 cents.

CIRCULARS.

NEW.

Rules and Regulations for Carrying Out the Plant Quarantine Act. Pp. 12. (Circular 41, Revised, Office of the Secretary.)

Amendment No. 2, to the Rules and Regulations for Carrying out the Provisions of the Insecticide Act of 1910. Pp. 1. (Amendment No. 2 to Circular 34, Office of the Secretary.)

Amendment 6 to B. A. I. Order 143. Amending Regulation 44 relating to the Interstate Movement of Swine not showing Symptoms of Cholera. Pp. 1.

Regulations for the Protection of Deer in Alaska. Pp. 1. (Circular 86, Bureau of Biological Survey.)

Officials Charged With The Enforcement of Food Laws in the United States and Canada. (Revised to July 1, 1912.) Pp. 51. (Circular 16, Revised, Bureau of Chemistry.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1912. Reports on the Recommendations of Referees. Pp. 18. (Circular 108, Bureau of Chemistry.)

The Potato-Tuber Moth. A Preliminary Account. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 5, figs. 3. (Circular 162, Bureau of Entomology.)

Insects Liable to Dissemination in Shipments of Sugar Cane. By T. E. Holloway, Entomological Assistant. Pp. 8. (Circular 165, Bureau of Entomology.)

Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 26. (Circular 111, Revised, Office of Experiment Stations.)

Service Tests of Ties. Progress Report. By Howard F. Weiss, Assistant Director, Forest Products Laboratory, and Carlile P. Winslow, In Charge of Cooperative Projects. Pp. 25, figs. 2. (Circular 209, Forest Service.)

Ramie. By Lyster H. Dewey, Botanist in Charge of Fiber Investigations. Pp. 9, figs. 2. (Circular 103, Bureau of Plant Industry.)

Special Contests for Corn-Club Work. By O. H. Benson, Specialist in Charge of Club Work, Office of Farm Management. Pp. 15, figs. 4. (Circular 104, Bureau of Plant Industry.)

Progress Reports of Experiments in Dust Prevention and Road Preservation, 1911. Pp. 47. (Circular 98, Office of Public Roads.)

Monthly List of Publications for November, 1912. Pp. 3. (Document 776, Division of Publications.)

Nitrate Prospects in the Amargosa Valley, near Tecopa, California. By E. E. Free. Pp. 6, figs. 4. (Circular 73, Bureau of Soils.)

Foreign Crops, November, 1912. By Charles M. Daugherty, Chief, Division of Research and Reference. Pp. 20. (Circular 42, Bureau of Statistics.)

Crop Reporter, Vol. 14, No. 12, December, 1912. Pp. 89-96.

*Same*, Supplement. Pp. 97-104.

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

Records of Dairy Cows: Their Value and Importance in Economic Milk Production.  
 (Circular 103, Bureau of Animal Industry.)

How to Build a Stave Silo. (Circular 136, Bureau of Animal Industry.)

How to Kill and Bleed Market Poultry. (Circular 61, Bureau of Chemistry.)

The Woolly Aphis of the Apple. (Circular 20, Bureau of Entomology.)

The Grasshopper Problem and Alfalfa Culture. (Circular 84, Bureau of Entomology.)

Insects Which Kill Forest Trees. Character and Extent of their Depredations and Methods of Control. (Circular 125, Bureau of Entomology.)

Eucalypts. (Circular 59, Forest Service.)

Progress Reports of Experiments in Dust Prevention and Road Preservation. (Circular 92, Office of Public Roads.)

## FARMERS' BULLETINS.

## NEW.

The Production of Maple Syrup and Sugar. By A. Hugh Bryan, Chief, Sugar Laboratory, Bureau of Chemistry, and William F. Hubbard, Forest Assistant, Forest Service. Pp. 46, figs. 12. (Farmers' Bulletin 516.)

This Bulletin supersedes Farmers' Bulletin 252 and Forest Service Bulletin 59. Winter Barley. By H. B. Derr, Agronomist, Office of Cereal Investigations, Bureau of Plant Industry. Pp. 18, figs. 4. (Farmers' Bulletin 518.) The Storage and Marketing of Sweet Potatoes. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 16, figs. 10. (Farmers' Bulletin 520.)

## SEPARATES.

## REPRINT.

Information About Spraying for Orchard Insects. (Separate 480, Yearbook 1908.)

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National Monthly Weather Bulletin No. 30, for November, 1912, reporting temperature and rainfall with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

Snow and Ice Bulletins for December 3, 10, 17, 26. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

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